

**Sun Exploration and
Production Company**
No 24 Smith Road
ClayDesta Plaza
PO Box 1861
Midland TX 79702 9970
915 688 0300

October 25, 1985

State of New Mexico
Energy & Minerals Dept.
P.O. Box 2088
Santa Fe, New Mexico 87501

RE: Application - Downhole Commingle
Eva Owens A Lease
Well No. 3
Unit Ltr. K, Sec. 25, T-21-S,
R-37-E
Lea County, New Mexico

Gentlemen:

Sun Exploration & Production Company request administrative approval to downhole commingle the Blinebry, Tubb and Drinkard zones in the referenced well.

Attached is well bore sketches, casing data sheets and a copy of the log. Also, attached is a copy of the notice sent to offset operators notifying them of our application.

Listed below are well tests that represent the production from the zones to be commingled.

Zone	<u>Blinebry</u>	<u>Tubb</u>	<u>Drinkard</u>
Perfs	5789-6094	6307-6434	6663-6690
Test	13 BOPD	6 BOPD	11 BOPD
	10 BWPD	3 BWPD	6 BWPD
	33 MCFD	31 MCFD	22 MCFD

If you have any questions or need additional information concerning our application, please contact me at (915) 688-0374.

Yours truly yours,

Dee Ann Kemp
Associate Accountant

DAK/mcn

APPLICATION FOR MULTIPLE COMPLETION

Sun Exploration and Production Co. Lea 10-9-85
Operator County Date
P.O. Box 1861, Midland, Texas 79702 Eva Owens A 3
Address Lease Well No.
K 25 21-S 37-E
Location Unit Section Township Range
of Well

All Applicants for multiple completion must complete Items 1 and 2 below.

1. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Blinebry	Tubb	Drinkard
b. Top and Bottom of Pay Section (Perforations)	5789-6094	6307-6434	6663-6690
c. Type of production (Oil or Gas)	Oil	Oil	Oil
d. Method of Production (Flowing or Artificial Lift)	Artificial Lift	Artificial Lift	Artificial Lift
e. Daily Production ☒ Actual ☐ Estimated Oil Bbls. Gas MCF Water Bbls.	13 BOPD 10 BWP 33 MCFD	6 BOPD 3 BWP 31 MCFD	11 BOPD 6 BWP 22 MCFD

2. The following must be attached:

- Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed Dee Ann Kemp Title Associate Accountant Date 10-9-85

(This space for State Use)

Approved By _____ Title _____ Date _____

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

WELL COMPLETION SKETCHES SUN-5036-4-A

WELL

EVA OWENS A #3

FIELD

Blinebry

DATE

10/7/85



PRESENT COMPLETION



SUGGESTED COMPLETION

PERMANENT WELL BORE DATA

KB: 3388'

8 5/8" 24# K55 CSG @ 1375'
 CMTD w/ 925SX, CIRC.

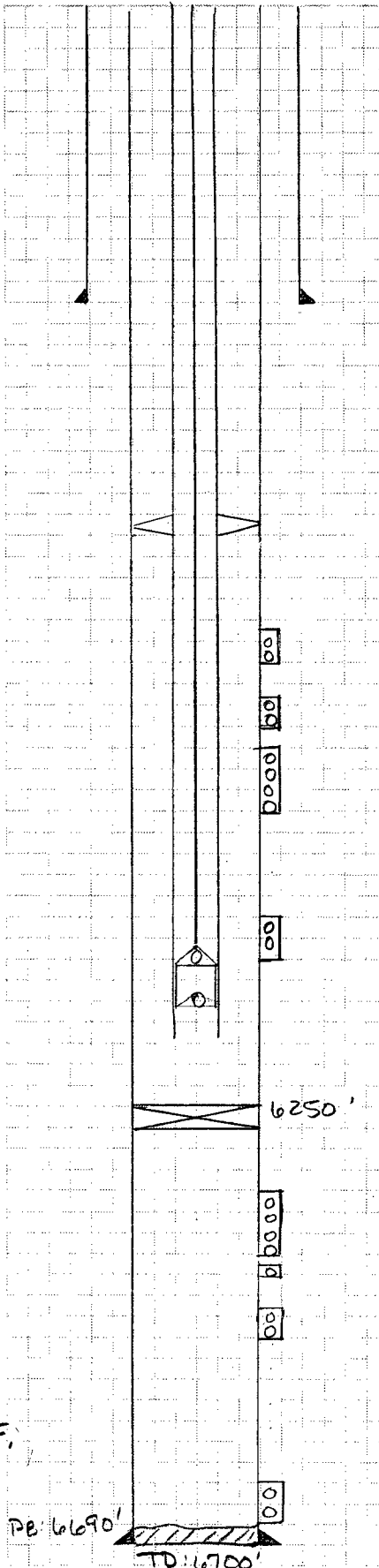
CENTRILIZERS FOR 8 5/8" CSG:

ONE IN MIDDLE OF SHOE JT,
 ONE ON FIRST COLLAR ABV
 FLOAT COLLAR & ONE
 EVERY 9th JT TO SURFACE.

CENTRILIZERS FOR 5 1/2" CSG:
 80' SPACING 6700-5300'.
 ONE ABV & BELOW DV TOOL.

5 1/2" 14# 15.5# K55 CSG @ 6700'.
 CMTD w/ 2100SX TO SURF.

TD: 6700' / PB: 6690'



DATA ON THIS COMPLETION

2 7/8" 6.5# J-55 TBG
 TO 6178'
 SN @ 6139'
 76 RODSTRING

TAC @ 5603'

Blinebry: 5789-5827'
 5868-5936'
 5948-5976'
 6054-6094'
 (1 JSP2F, 91 holes)

RBP @ 6250'.

TUBB: 6307-6313
 6320-6372
 6406-6434'
 (1 JSPF, 89 holes)

DRINKARD: 6663-6690'
 (1 JSP2F, 14 holes)

WELL COMPLETION SKETCHES SUN-5036-4-A

WELL

EVA OWENS A #3

FIELD

BLINEBRY / TUGG / DRINKARD

DATE

10/7/85



PRESENT COMPLETION



SUGGESTED COMPLETION

PERMANENT WELL BORE DATA

DATA ON THIS COMPLETION

KB: 3388'

8 5/8" 24# K55 CSG @ 1375'

CMTD w/ 925 sx, circ.

2 7/8" 16.5# J-55 TBG
TO 6435'

SN @ 6400'

76 Rodstring

TAC @ 5650'

BLINEBRY: 5789-5827'
5868-5936
5948-5976
6054-6094'TUGG: 6307-6313
6320-6372
6406-6434

DRINKARD 6663-6690'

5 1/2" 14 & 15.5# K55 CSG @ 6700'

CMTD w/ 2100 sx TO SURF.

TD: 6700 / PB: 6690'

PB: 6690

TD: 6700

CASING CEMENTING DATA

SUN

Page of

WELL NAME AND NUMBER SWA Owens #3		DISTRICT Southwestern		DATE CEMENTED 12-18-83	
FD 6700	HOLE SIZE 7 7/8	MUD WT 10'	VIS 40	CAKE 1/32	PH 7.5
		WL 9	MUD TYPE Native		

CEMENT DATA

STAGE I	SAX 500	YIELD 136	SLURRY COMPOSITION C/C' 50/50 Pz, 2% Hcl, 12% Salt	AVG. SLURRY WT. 14.1
	SAX	YIELD	SLURRY COMPOSITION	NO. SAMPLES 3
STAGE II	SAX 1600	YIELD 192	SLURRY COMPOSITION Howco Lite, 18% Salt, 1/4 FC.	AVG. SLURRY WT. 13.2
	SAX	YIELD	SLURRY COMPOSITION	NO. SAMPLES 3

EQUIPMENT DATA

MFG. TYPE, POSITION 30 BBLs Flo Out 21-5 BBLs 20 KCL with 10 BBL Fresh Water Spum
SCRATCHERS Howco - 10' spacing 6700' - 5300'
CENTRALIZERS Howco - 80' spacing 6700' - 5300' - One above & below DV Tool

CEMENTING CO.

Howco	WASH AHEAD OF CMT. TYPE H2O	BBLs. 10	THREAD COMPOUND RPT MOD
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OPERATIONAL DATA

STARTED RING CASING ON BTM. 9:30 P.M.	START CIRC. 3:00 A.M.	END CIRC. 6:00 A.M.	RATE 6	START MIX CMT. 6:00 A.M.	END MIX 6:45 A.M.	RATE 10	START PLUG 6:45 A.M.
PLUG DOWN 7:00 A.M.	PIPE MOVED: HOW 6-8 BBLs	START 11:00 A.M.	STOP 12:00 P.M.	START 11:00 A.M.	STOP 12:00 P.M.	SHUT DOWN TIME 12:01 A.M.	
CSG FILLED EVERY 20 JOINTS WHILE RUNNING	DISPLACED PLUG W/ ☐ WATER ☒ MUD	LOST RETURNS (SEE REMARKS) ☐ YES ☒ NO					
BREAK CIRC. 450 PSI	CIRC. PRIOR TO MIX 1300 PSI	JUST PRIOR TO PLUG DOWN 350 PSI	1200 PSI				
FINAL 1500 PSI	bled back to 0 PSI	CEMENT TOP ACTUAL	CALCULATED	VOL. CEMENT RETURNED 20			
CSG FLANGE (MFG, MODEL, SIZE, SERIES)				150			

CASING DATA

LIST POSITION IN STRING FROM TOP TO BOTTOM

RDB-GND

RDB-BH

MFG - ITEM	SIZE	WEIGHT	GRADE	THREAD CONNECTION	COND.	NO. JTS	FOOTAGE	RDB SPACE 11.00
Csg	5 1/2"	14#	K	ST & C	1	116	4578.38	RDB TO TOP
DV - Tool	5 1/2"	14#-17#	K	ST & C	1	1	3.08	4589.38
Csg	5 1/2"	14#	K	ST & C	1	29	1103.79	4592.46
Csg	5 1/2"	15.5#	K	ST & C	1	1	9.45	5695.25
Csg	5 1/2"	15.5#	K	ST & C	1	20	903.50	5704.70
Float Collar	5 1/2"	15.5#-17#	K	ST & C	1	1	1.55	6608.20
Csg	5 1/2"	15.5#	K	ST & C	1	1	46.50	6609.75
Csg	5 1/2"	15.5#	K	ST & C	1	1	41.85	6656.25
Float Shoe	5 1/2"	15.5#-17#	K	ST & C	1	1	1.90	6698.10

REMARKS

14 Full Joints Left on Location - 2 good - 2 are painted have been pinned - 1 cut off approximately 12.00 feet

CASING SEAT

6700

SUPERVISOR

D. L. Morgan

SUN - 7

Page of

D	HOLE SIZE	MUD WT	VIS	CAKE	PH	WL	MUD TYPE
1375	12 1/4	8.8	35	NC	NC	NC	NATIVE

STAGE I	SAX	YIELD	SLURRY COMPOSITION	AVG. SLURRY WT.
	725	1.88	Cl/C', 4% GeL, 2% CaCl ₂ , 1/4 Fe.	13.2
	SAX	YIELD	SLURRY COMPOSITION	NO. SAMPLES
				3
STAGE II	SAX	YIELD	SLURRY COMPOSITION	AVG. SLURRY WT.
	200	1.32	Cl/C', 2% CaCl ₂	14.8
	SAX	YIELD	SLURRY COMPOSITION	NO. SAMPLES
				3

SCRATCHERS	MFG, TYPE, POSITION
	<i>none</i>

How CO - One in middle of shoe pt. One on First Collar
above Elbow Collar - One over it to under CO?

STARTED RING CASING	ON BTM.	START CIRC.	END CIRC.	RATE	START MIX CMT.	END MIX	RATE	START PLUG
8:15 P _M	10:15 P _M	10:15 P _M	11:00 P _M	6 BBLs / M	11:00 P _M	11:50 P _M	8-10 BBLs / M	11:50 P
PLUG DOWN	RATE	PIPE MOVED: HOW	START	STOP	START	STOP	SHUT DOWN TIME ?	
12:15 A _M	6 BBLs / M							

CSG FILLED EVERY		JOINTS WHILE RUNNING		DISPLACED PLUG W/ ☒ WATER ☐ MUD		LOST RETURNS (SEE REMARKS) ☐ YES ☒ NO	
BREAK CIRC.		100 PSI		CIRC. PRIOR TO MIX		50 PSI	
FINAL		1200 PSI		CEMENT TOP		ACTUAL	
BLED BACK TO		0 PSI		CALCULATED		VOL. CEMENT RETURNED	
CSG FLANGE (MFG. MODEL. SIZE. SERIES)						254	

LIST POSITION IN STRING FROM TOP TO BOTTOM

RDB-GND

RDS-64

[illegible]

REMARKS (2 Fuel jts 85% C₅₀ Left on Location)
(36.22) (40.27)

CASING SEAT
1375

SUPERVISOR

J. L. Morgan



**Sun Exploration and
Production Company**
No 24 Smith Road
ClayDesta Plaza
PO Box 1861
Midland TX 79702 9970
915 688 0300

October 9, 1985

Offset Operator
(List Attached)

RE: Multiple Completion
Eva Owens "A" Lease
Well No. 3
Sec. 25, T-21-S, R-37-E
Lea County, New Mexico

Gentlemen:

Sun Exploration & Production Company is applying for multiple completion, to the New Mexico Oil Conservation for the referenced well. Attached for your information is a copy of the application

If you have any questions please contact me at (915) 688-0374.

Very truly yours,

Dee Ann Kemp
Associate Accountant

DAK/mcn

*Notified offset operators by certified mail
10-10-85.*

Dee Ann Kemp

Offset Operators
Eva Owens -A- Lease

Amoco Production Company
P. O. Box 68
Hobbs, New Mexico 88240

Arco Oil & Gas Company
P. O. Box 1610
Atlantic Richfield Bldg.
Midland, Texas 79702

Conoco, Inc.
P. O. Box 460
Hobbs, New Mexico 88240

Gulf Oil Exploration & Production Co. (Chevron)
P. O. Box 1150
Midland, Texas 79702

Kirby Exploration Co.
P. O. Box 1745
1717 St. James Place
Houston, Texas 77001



SIMULTANEOUS
COMPENSATED NEUTRON-
LITHO DENSITY

COUNTY LEA, N.M. FIELD DRINKARD/BLINEBRY LOCATION EVA OWEN #3 WELL EVA OWEN #3 COMPANY SUN EXPL. & PROD.	COMPANY		SUN EXPLORATION AND PRODUCTION				
	COMPANY						
	WELL		EVA OWEN #3				
	FIELD		DRINKARD/BLINEBRY				
	COUNTY		LEA		STATE		NEW MEXICO
LOCATION		1980' FSL 1980' FWL				Other Services:	
API SERIAL NO.		API #30-025-28420				DLL/MSFL	
SEC		TWP.		RANGE			
25		21-S		37-E			
Permanent Datum:		G.L.		Elev.: 3376.5		Elev.: K.B. 3387	
Log Measured From		K.B. 11		Ft. Above Perm. Datum		D.F.	
Drilling Measured From		K.B.				G.L. 3376	
Date	12-16-83						
Run No.	ONE						
Depth-Driller	6700						
Depth-Logger	6697						
Btm. Log Interval	6693						
Top Log Interval	SURF						
Casing-Driller	8 5/8 @ 1375			@	@	@	@
Casing-Logger	1372						
Bit Size	7 7/8						
Type Fluid in Hole	SALT MUD						
Dens.	Visc.	10.4 42					
pH	Fluid Loss	7.5	9 ml	ml	ml		
Source of Sample	MUD PIT						
Rm @ Meas. Temp.	.055	@ 68 F	@	°F	@	°F	@
Rmf @ Meas. Temp.	.041	@ 68 F	@	°F	@	°F	@
Rmc @ Meas. Temp.	-	@ F	@	°F	@	°F	@
Source: Rmf	Rmc	M					
Rm @ BHT	.035	@ 111 F	@	°F	@	°F	@
Circulation Stopped	2300	12-16					
Logger on Bottom	0730	12-17					
Max. Rec. Temp.	111	F	F	F	F	F	F
Equip.	Location	3141	SWL				
Recorded By	FRIGON						
Witnessed By	MS. SMITH						

	BACKGROUND MEASURED	AFTER	UNITS
LL	16.42	16.51	CPS
LU	63.46	63.81	CPS
LS	48.15	48.40	CPS
LITH	4.972	4.93	CPS
SS1	14.53	14.43	CPS
SS2	9.898	9.95	CPS

CNTH TOOL CHECK

JIG
 BEFORE AFTER
 NRAT 2.082 2.057

POROSITY CHANGE (LIME): -0.003
 FILE

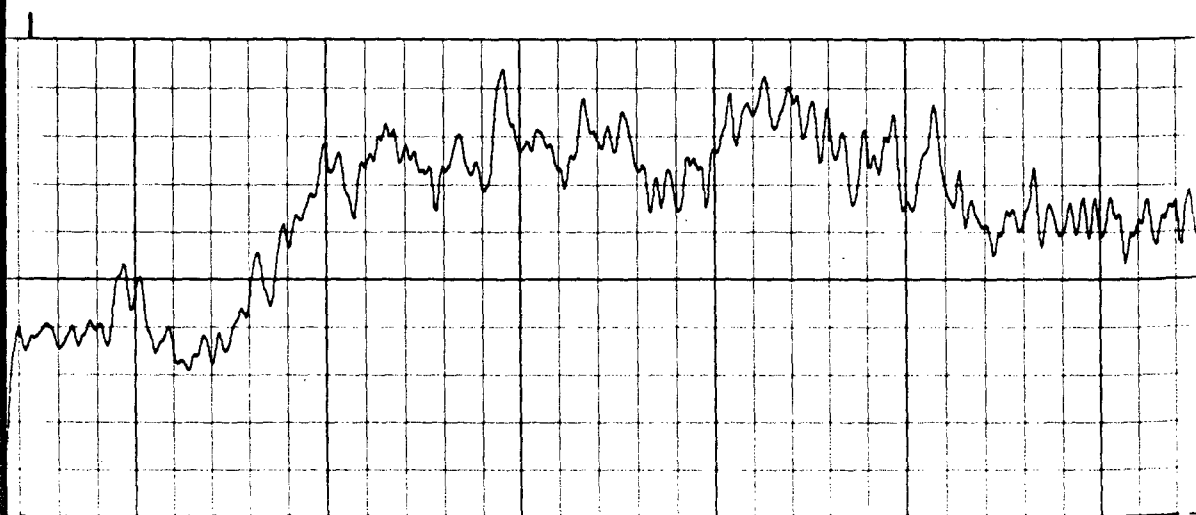
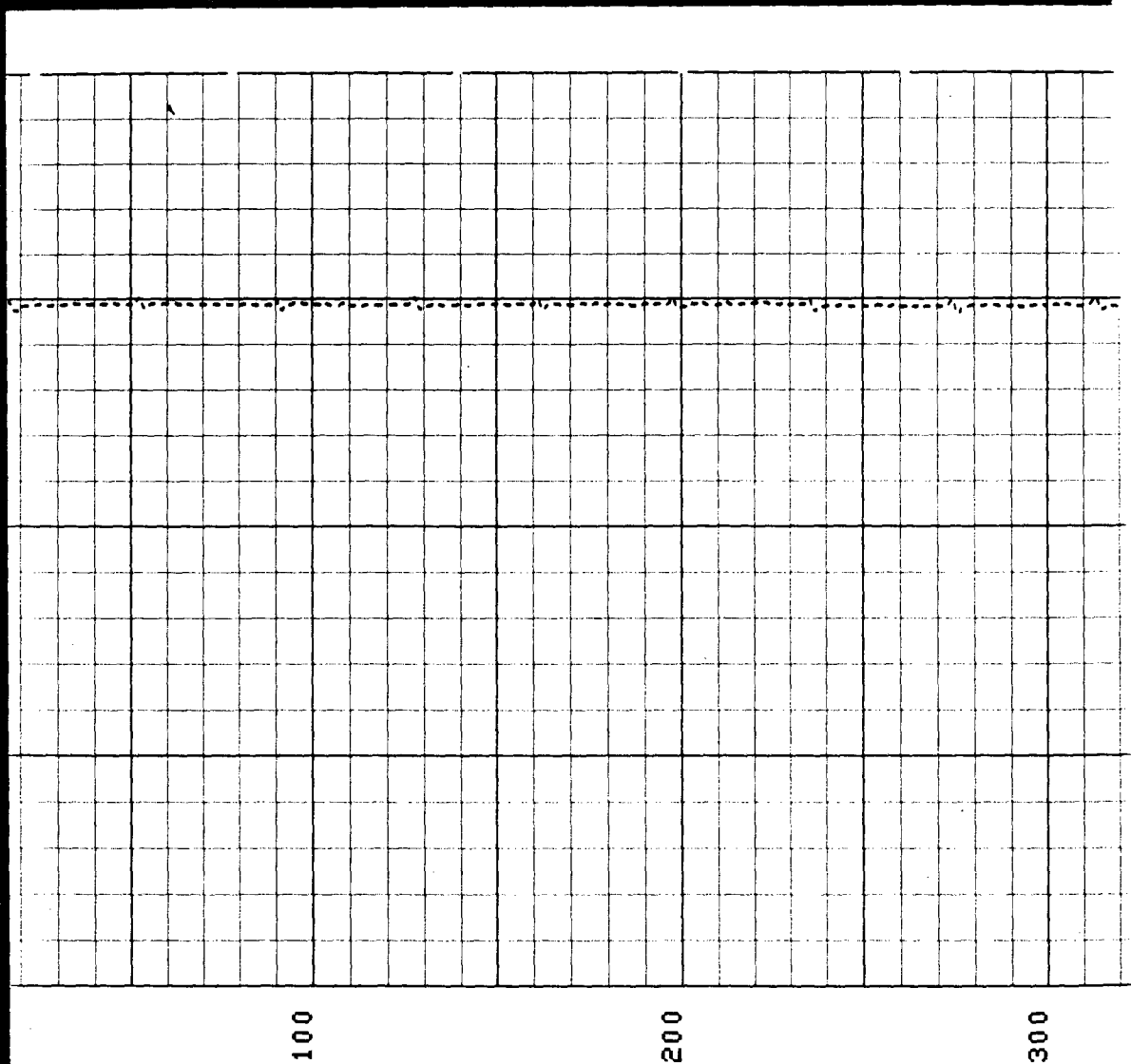
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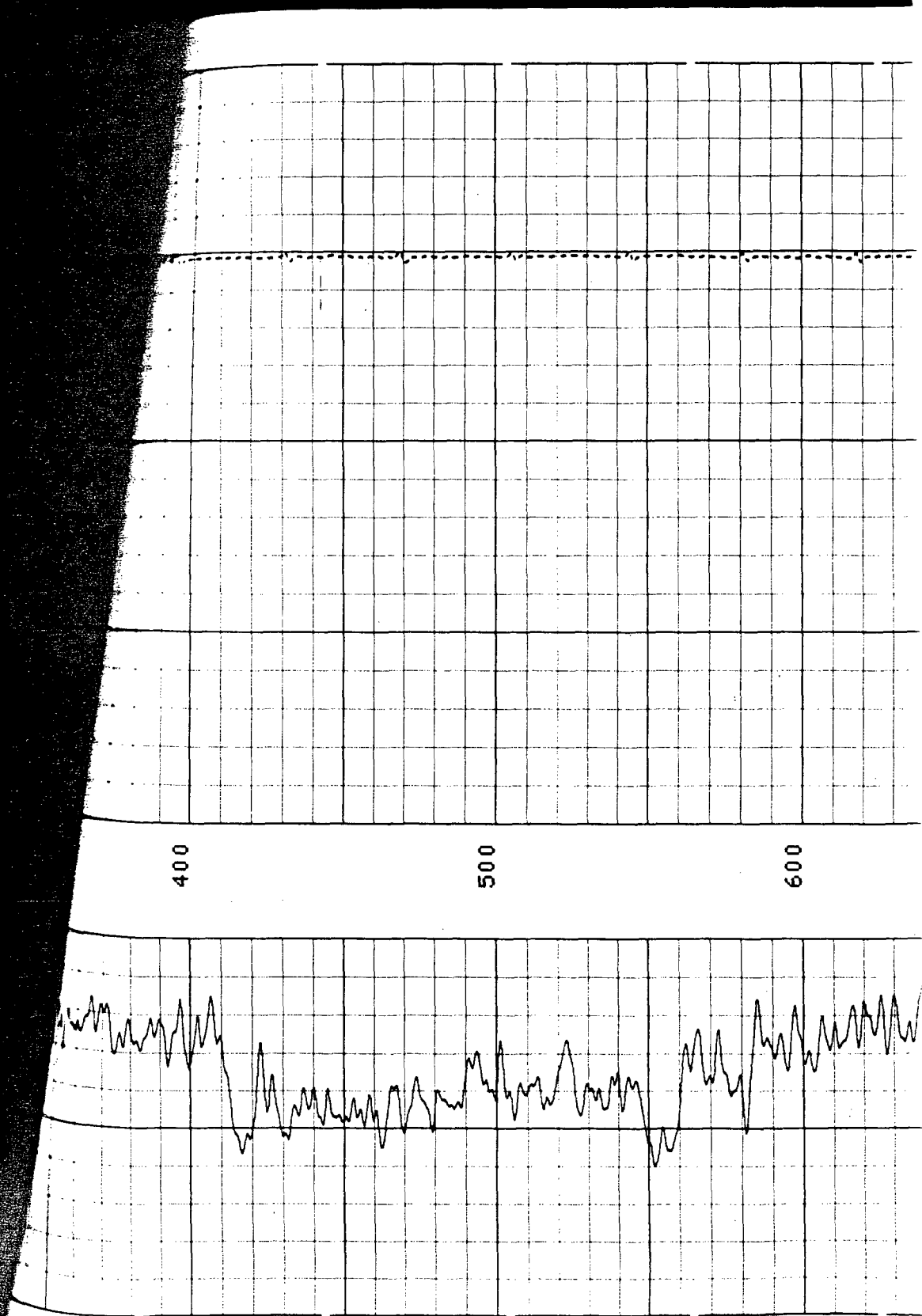
GR (GAPI)	200.00	DRHO(G/C3)	-0.050	0.4500
CALI(IN)	16.000	NPHI()	0.3000	-0.100
GR (GAPI)	100.00	RHOB(G/C3)	2.0000	3.0000

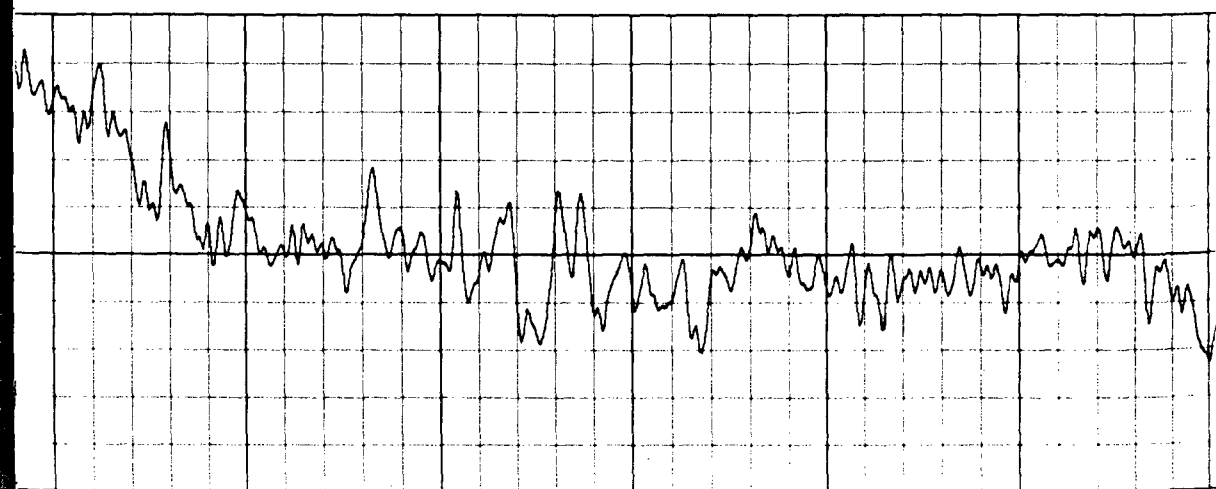
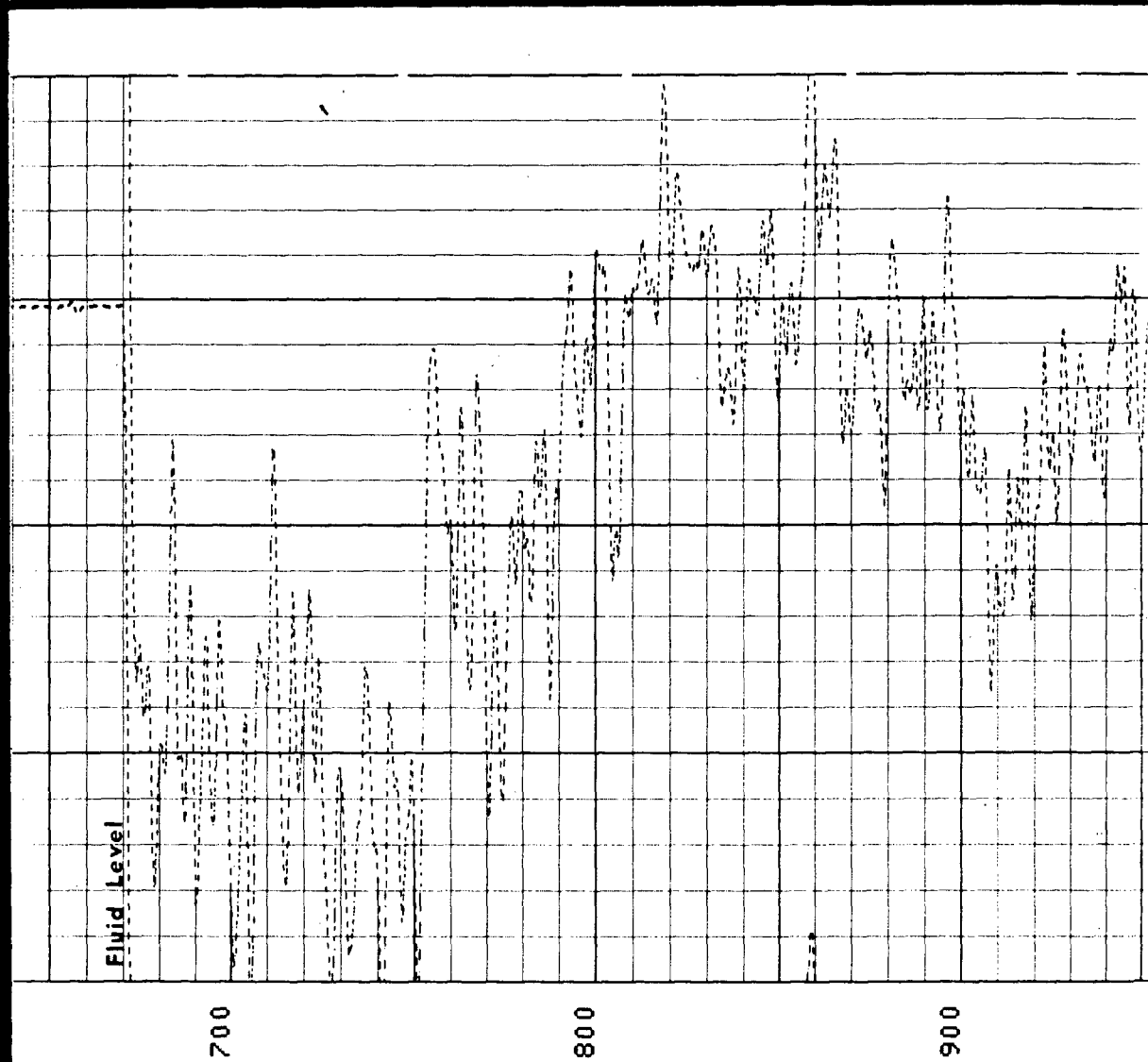
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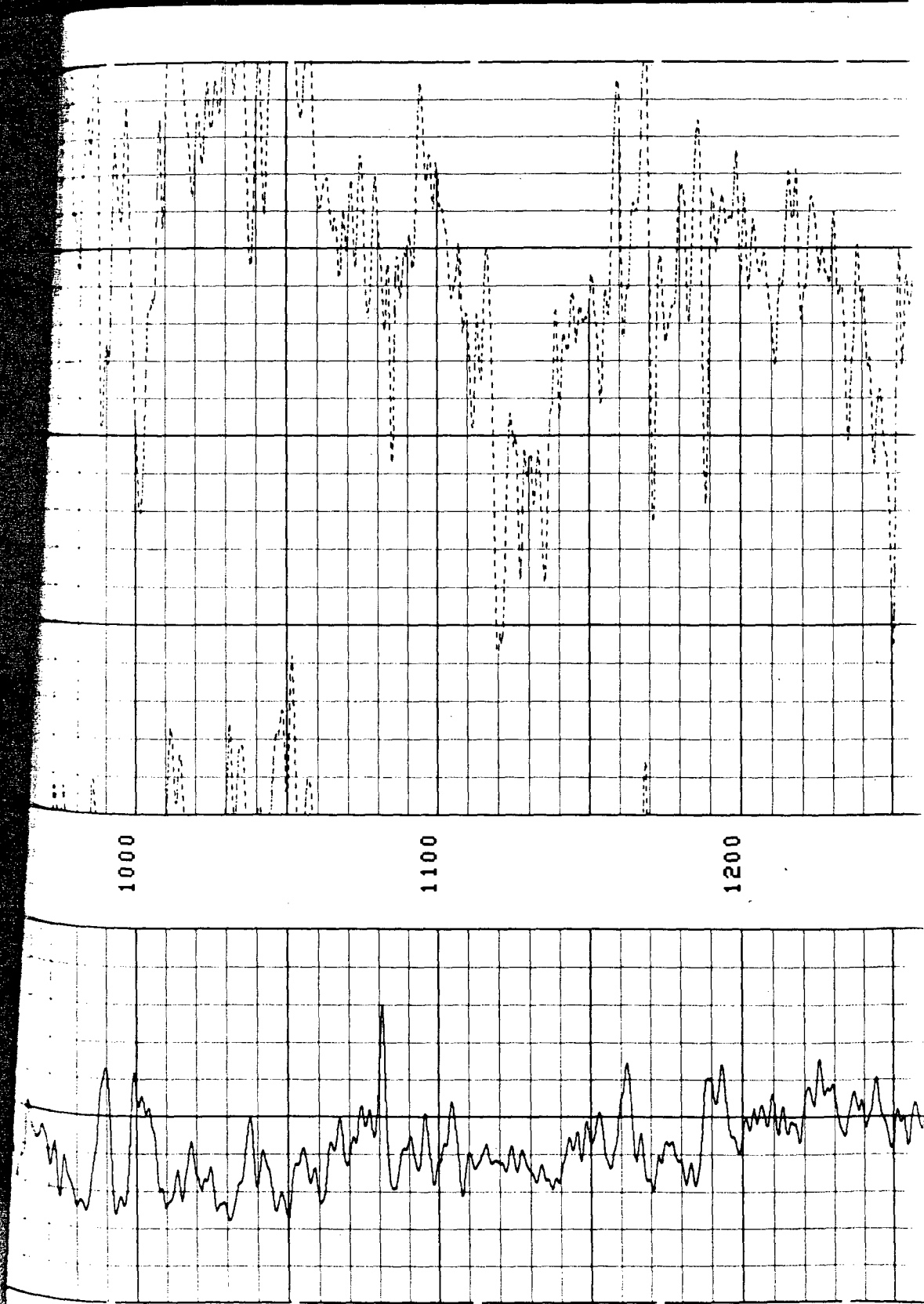
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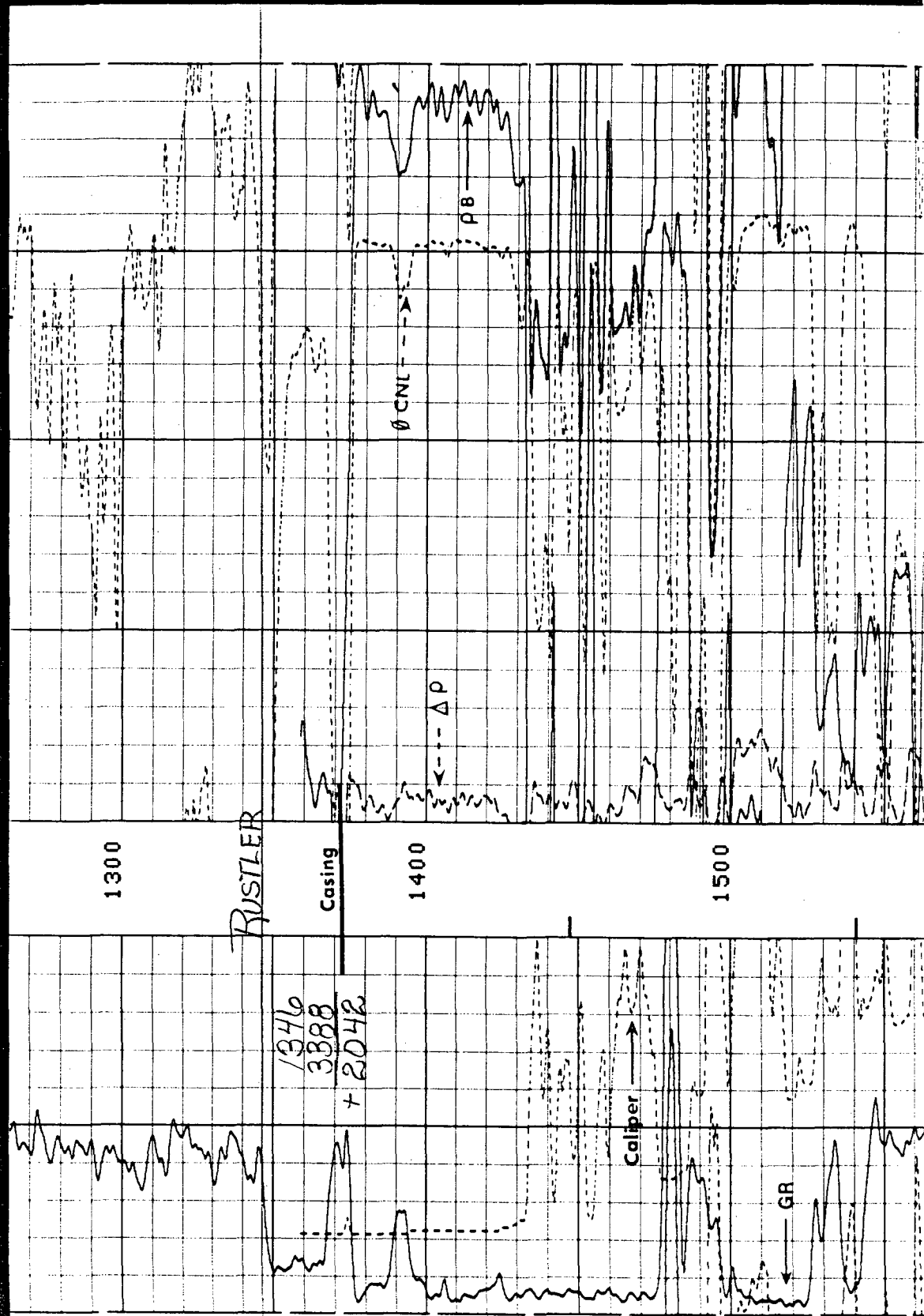
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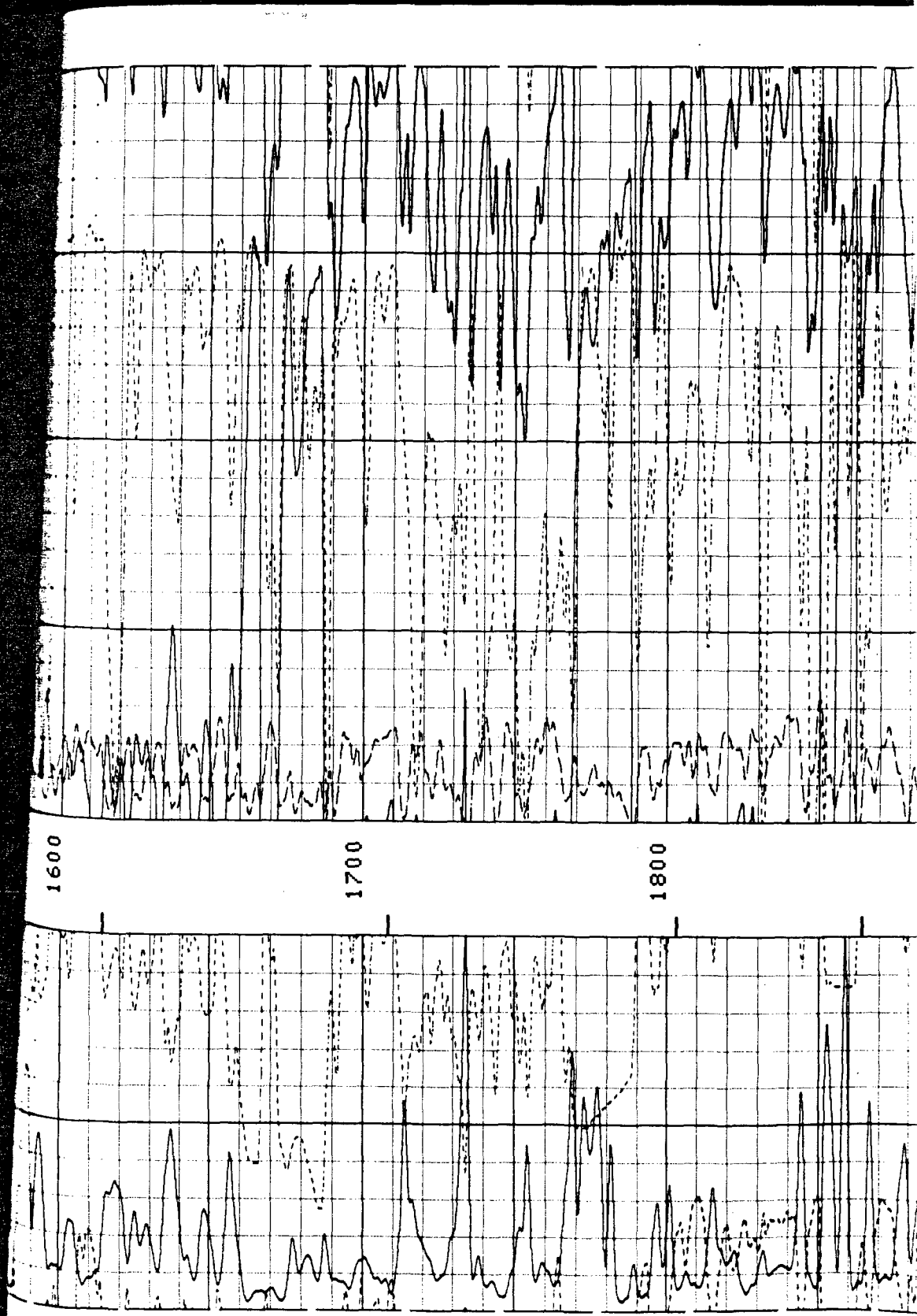


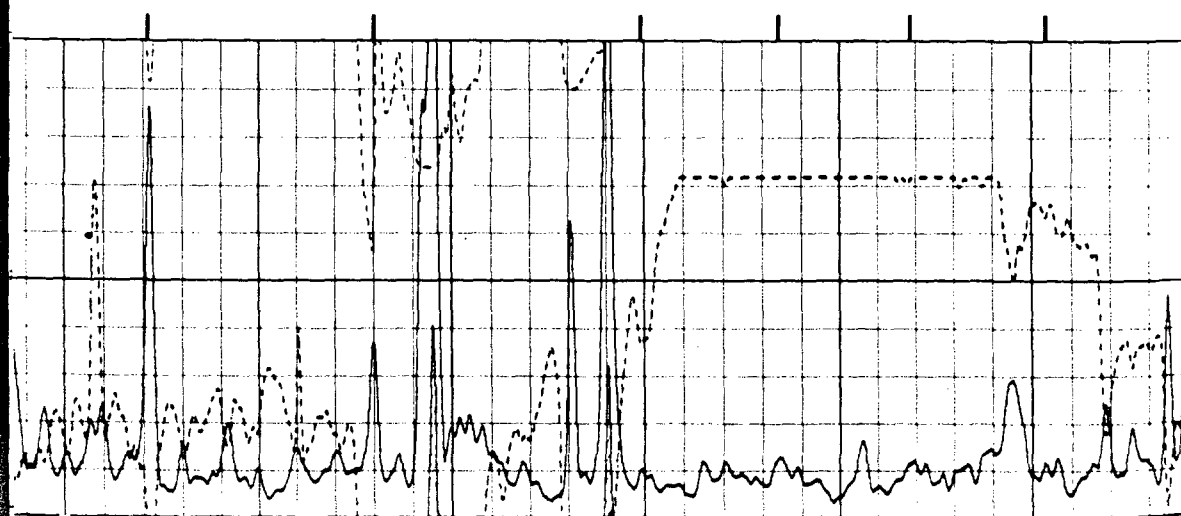
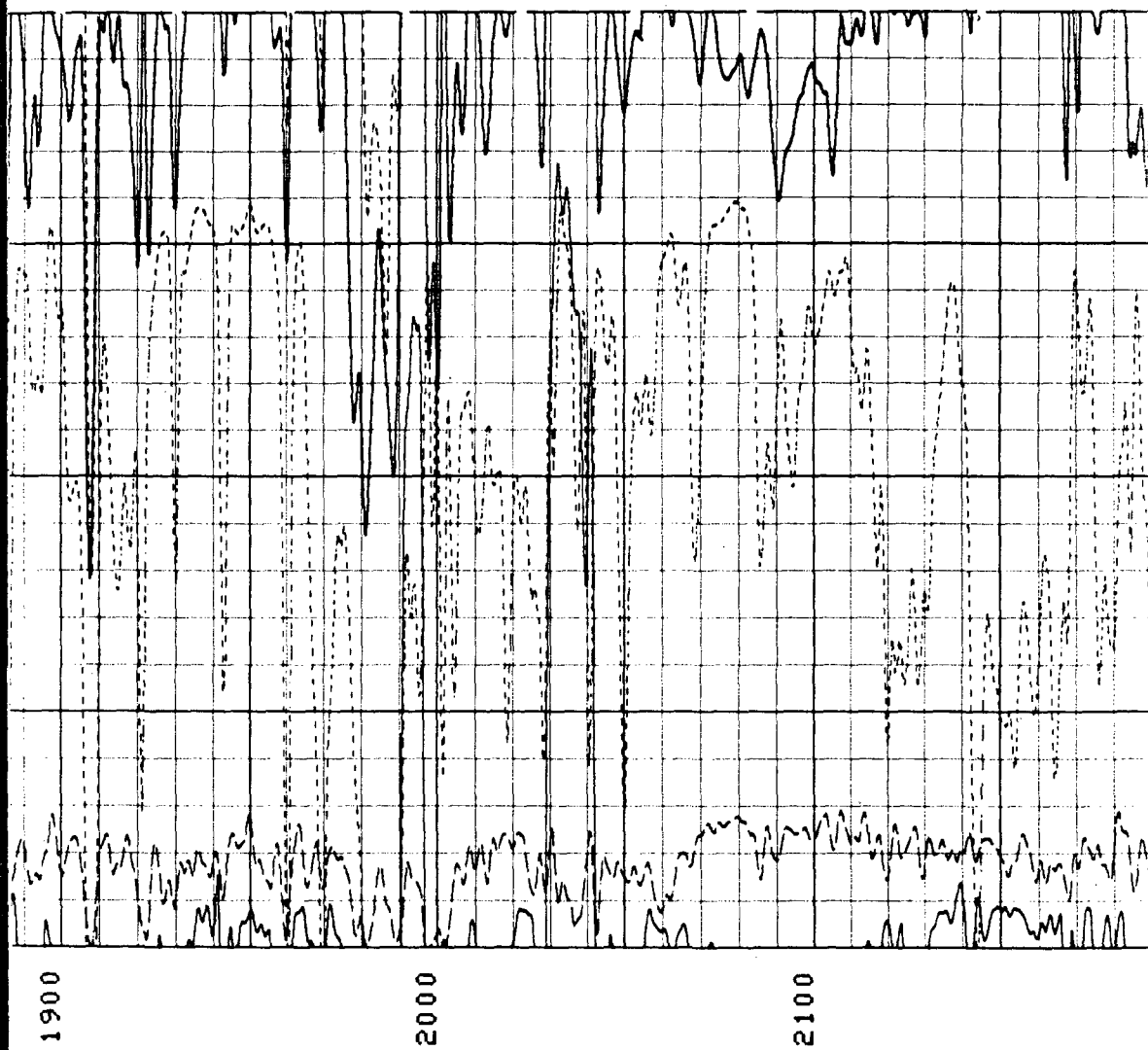


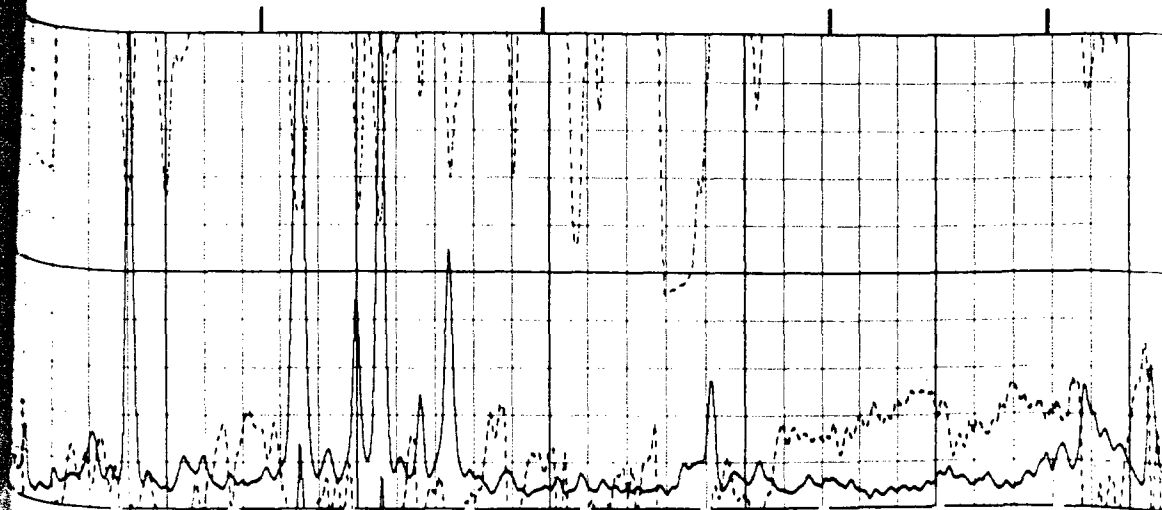
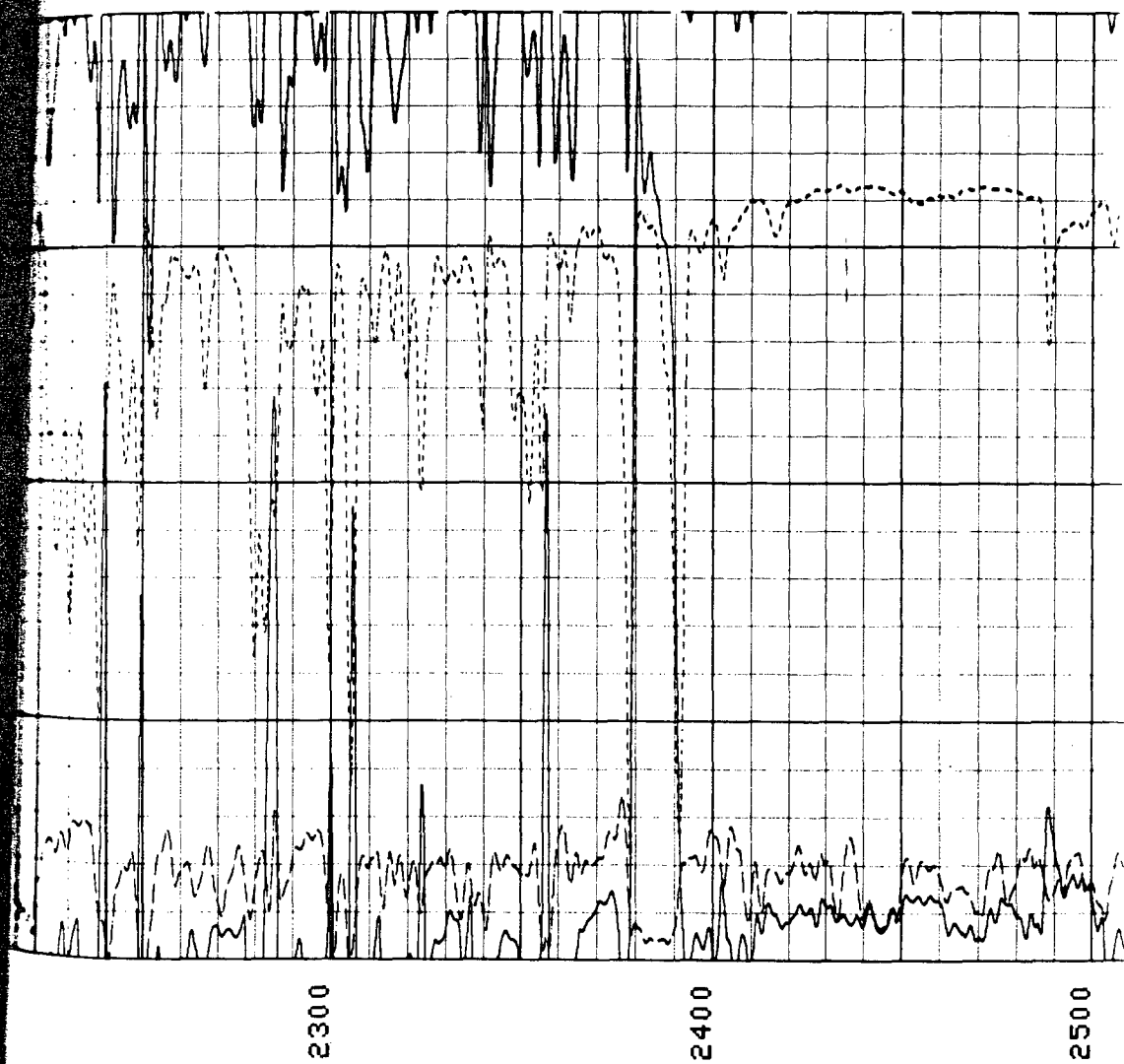


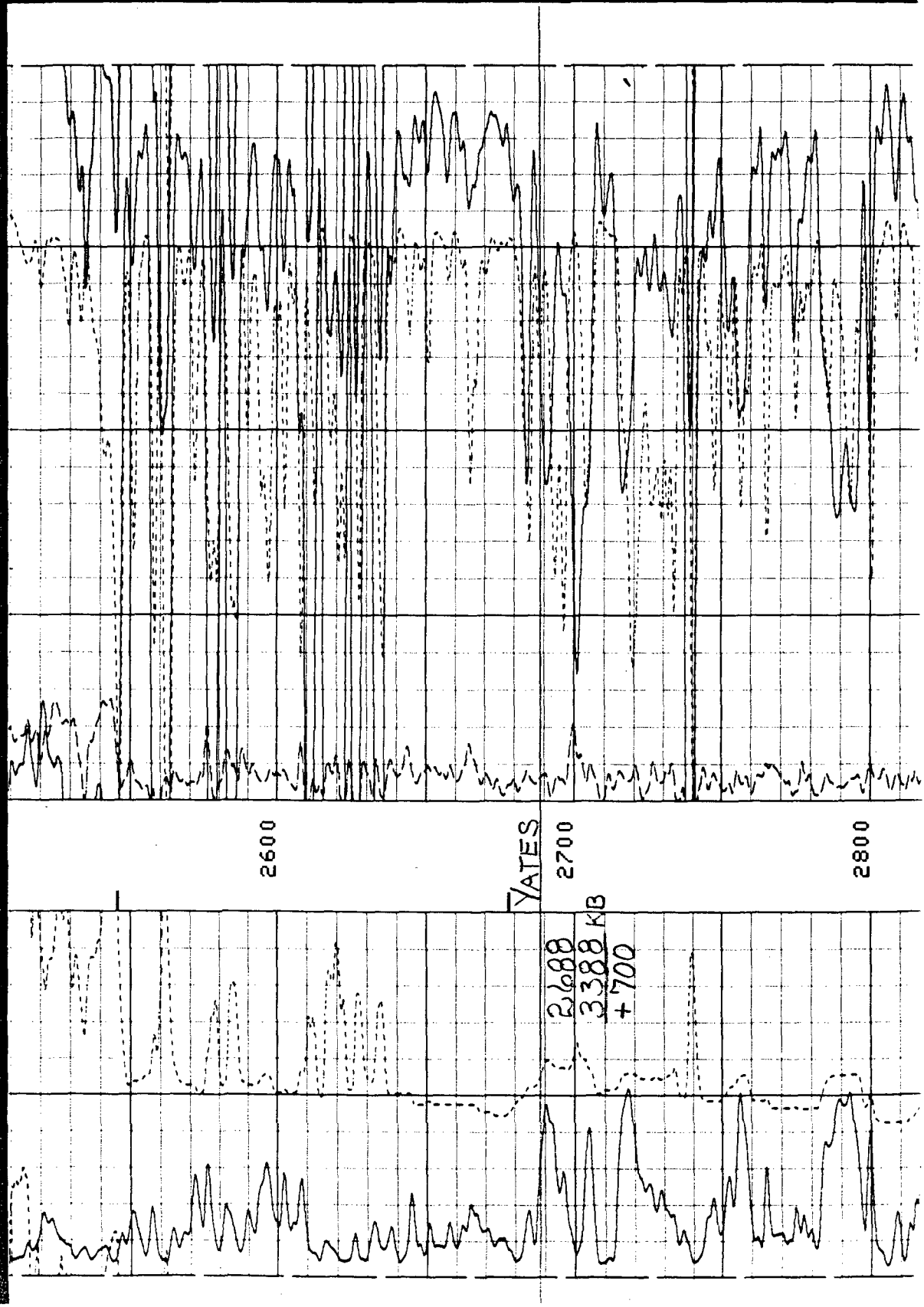


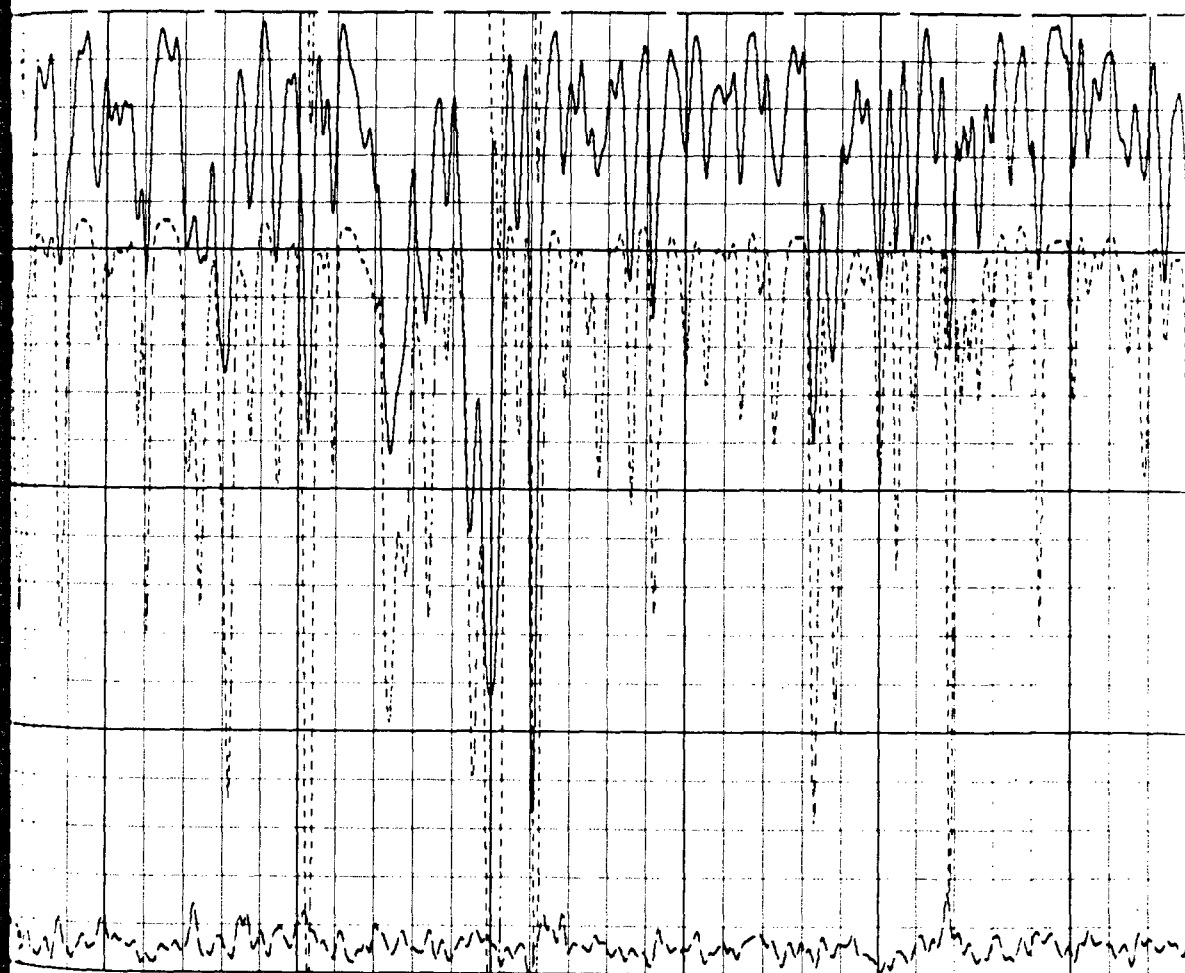








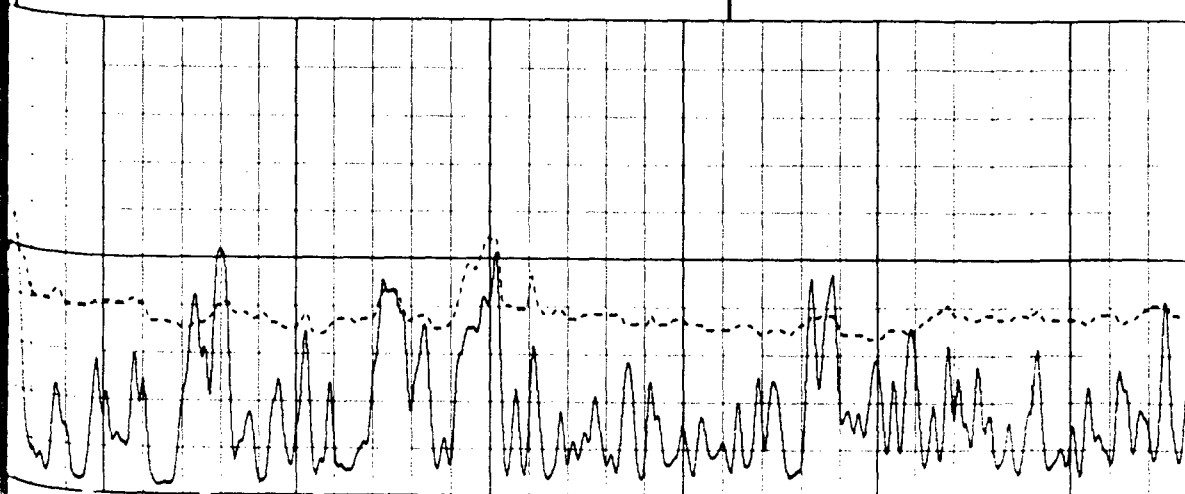


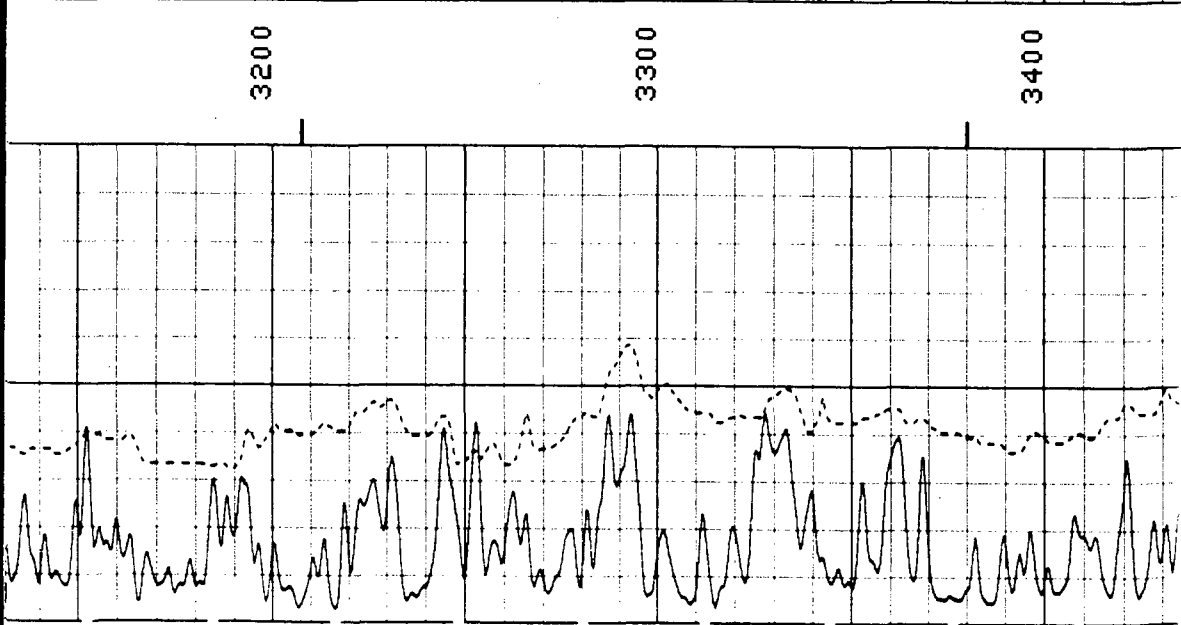
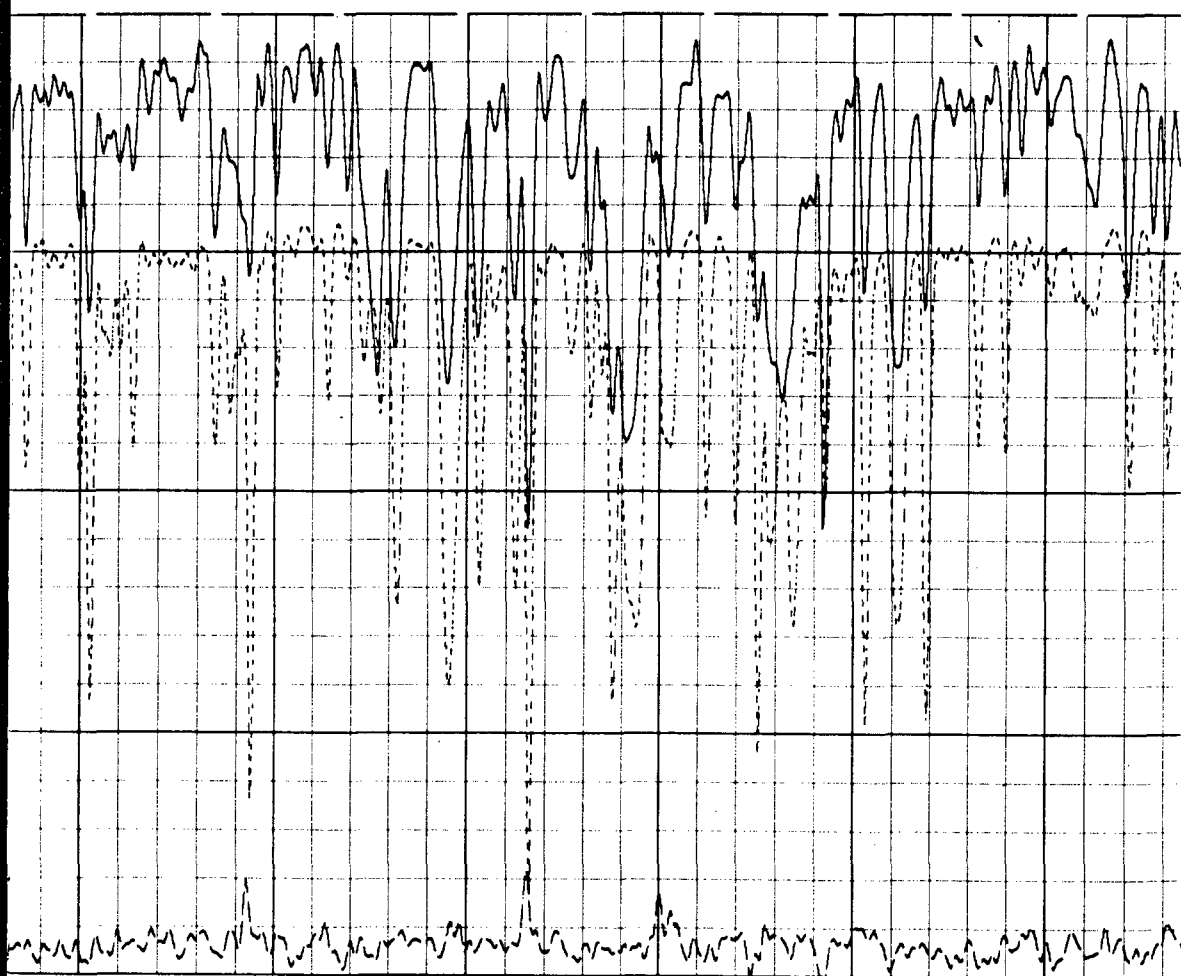


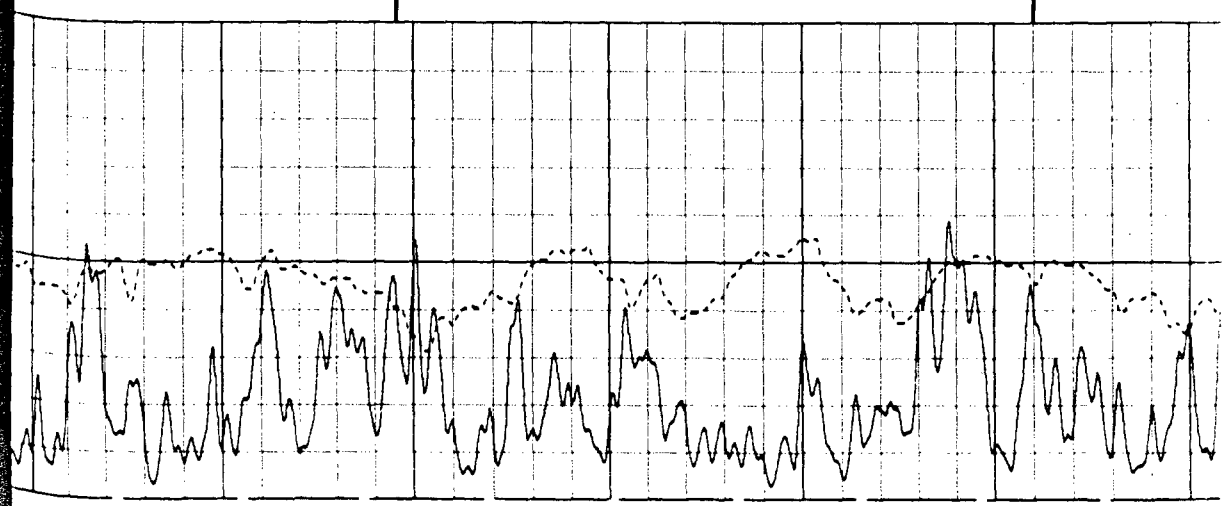
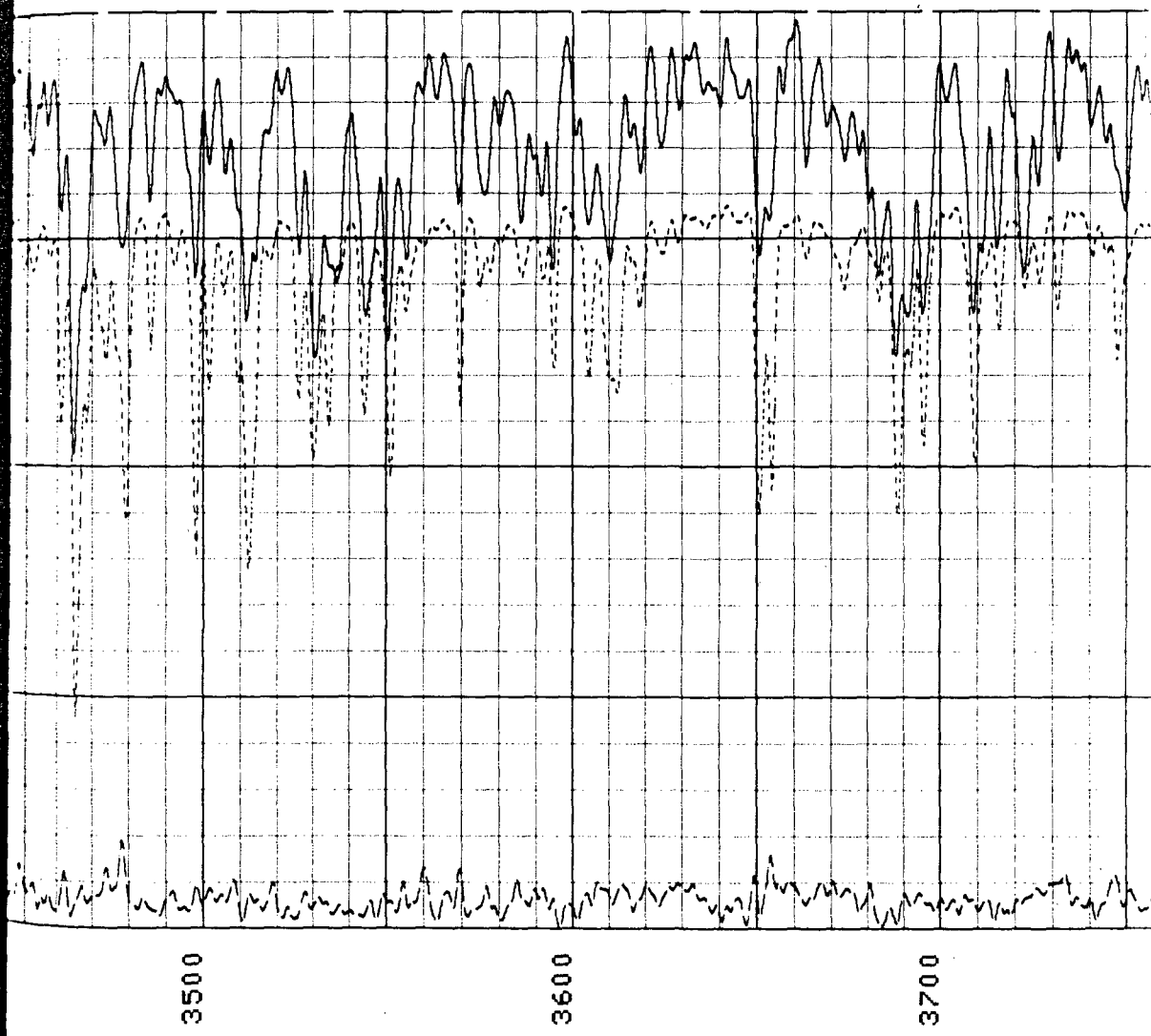
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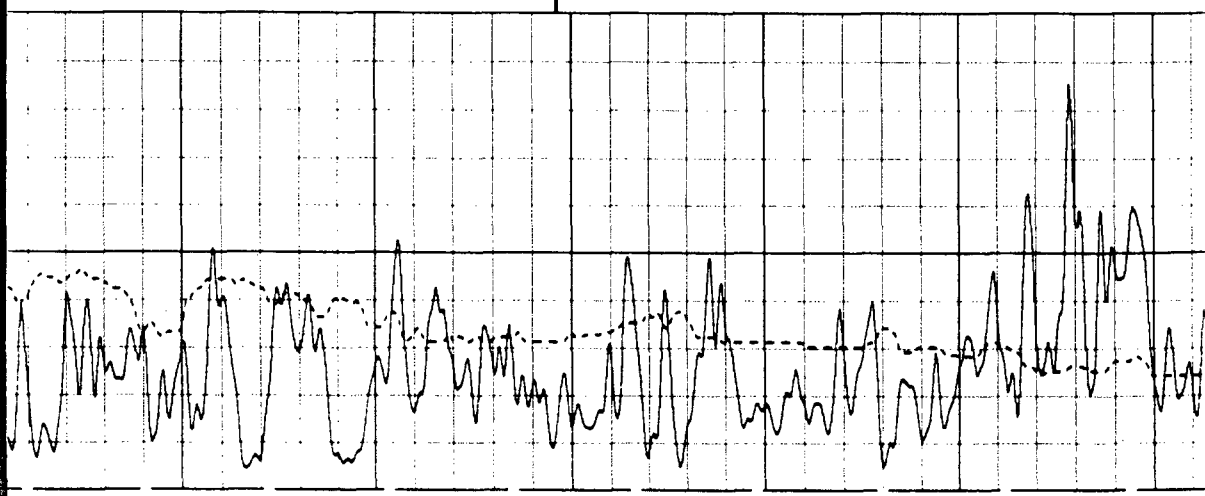
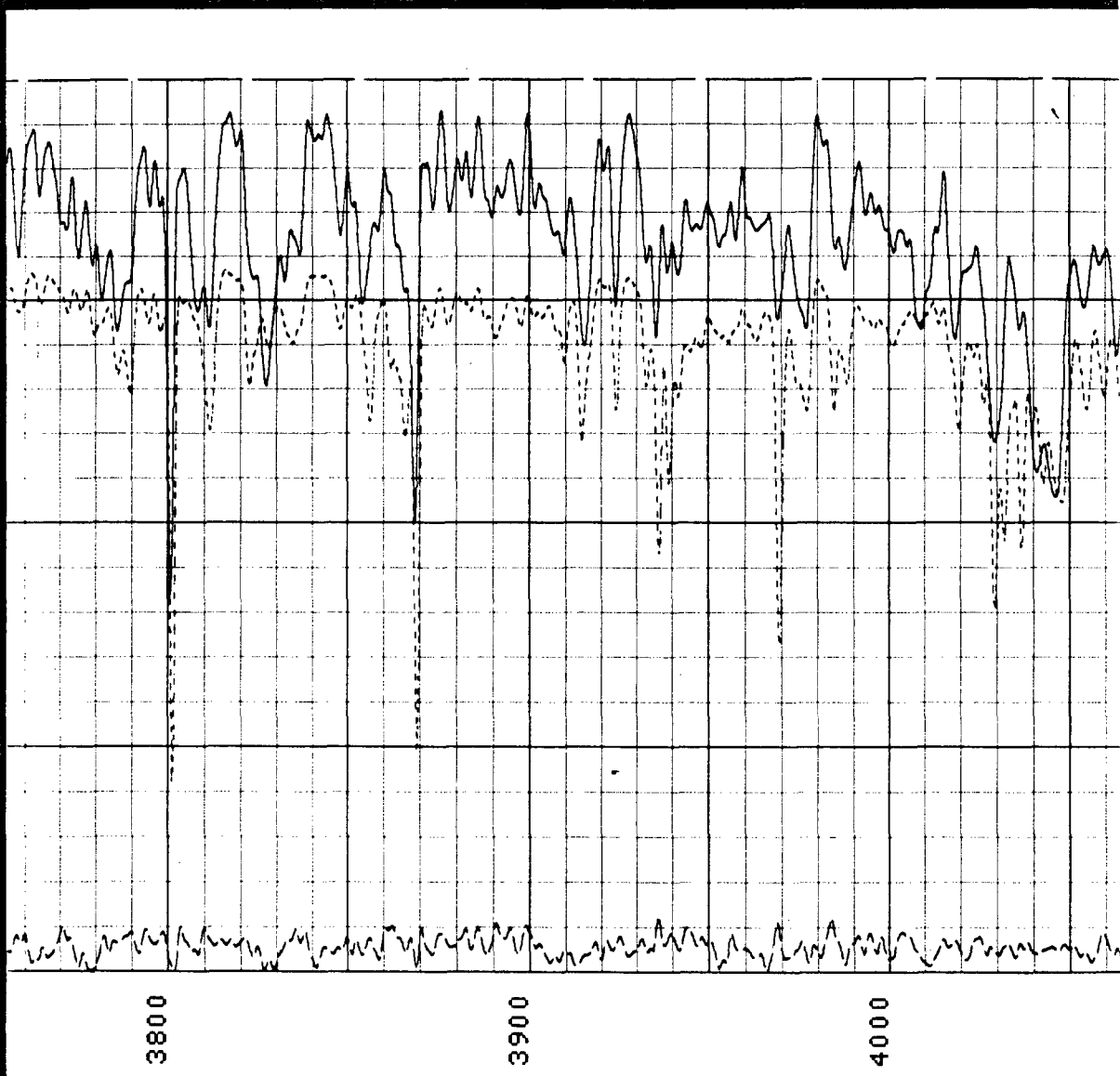
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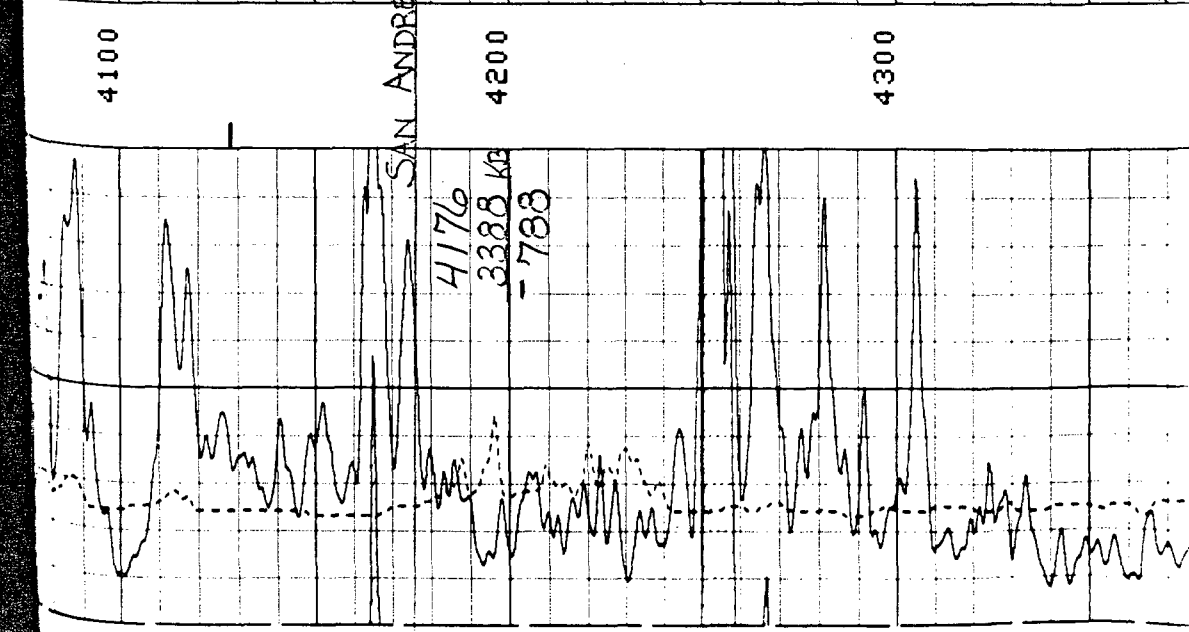
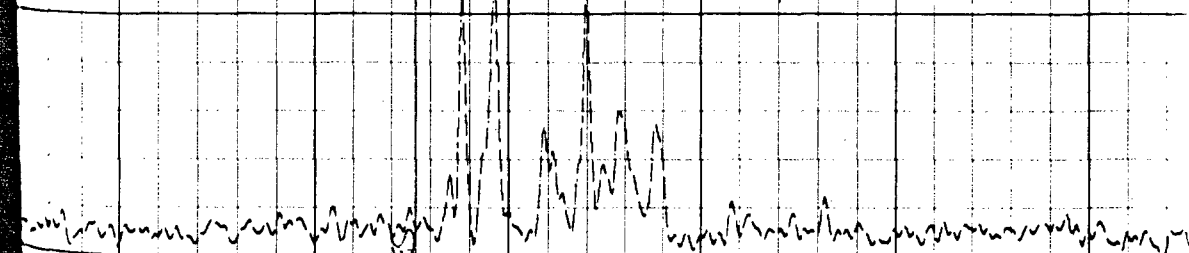
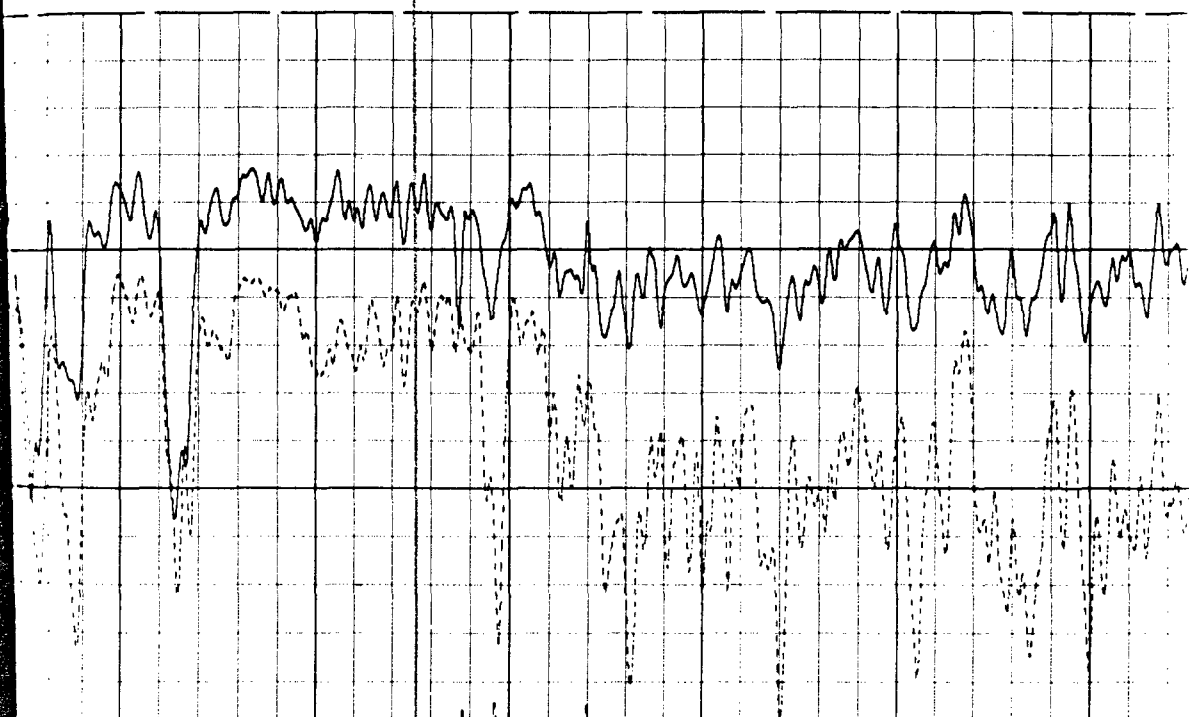
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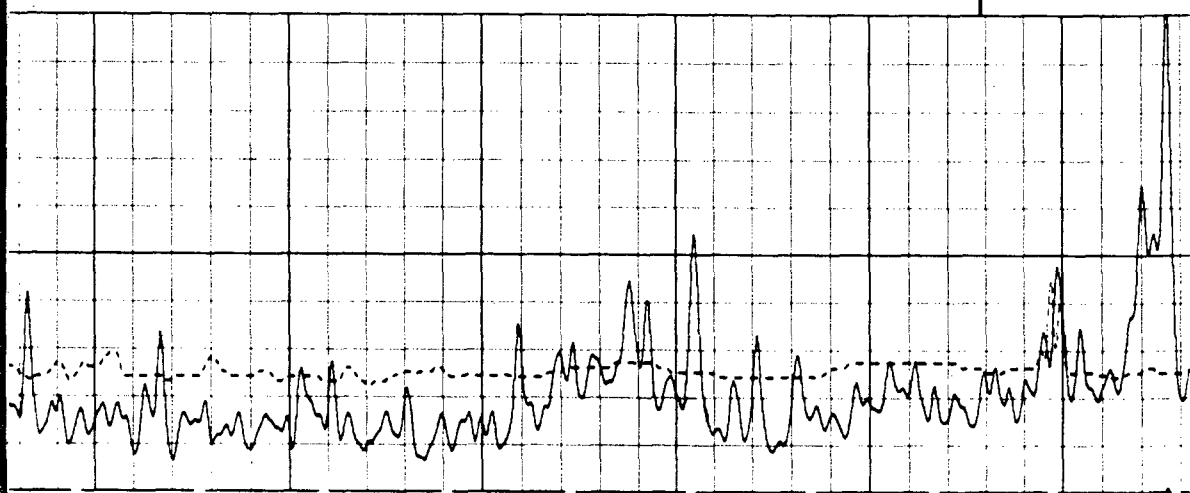
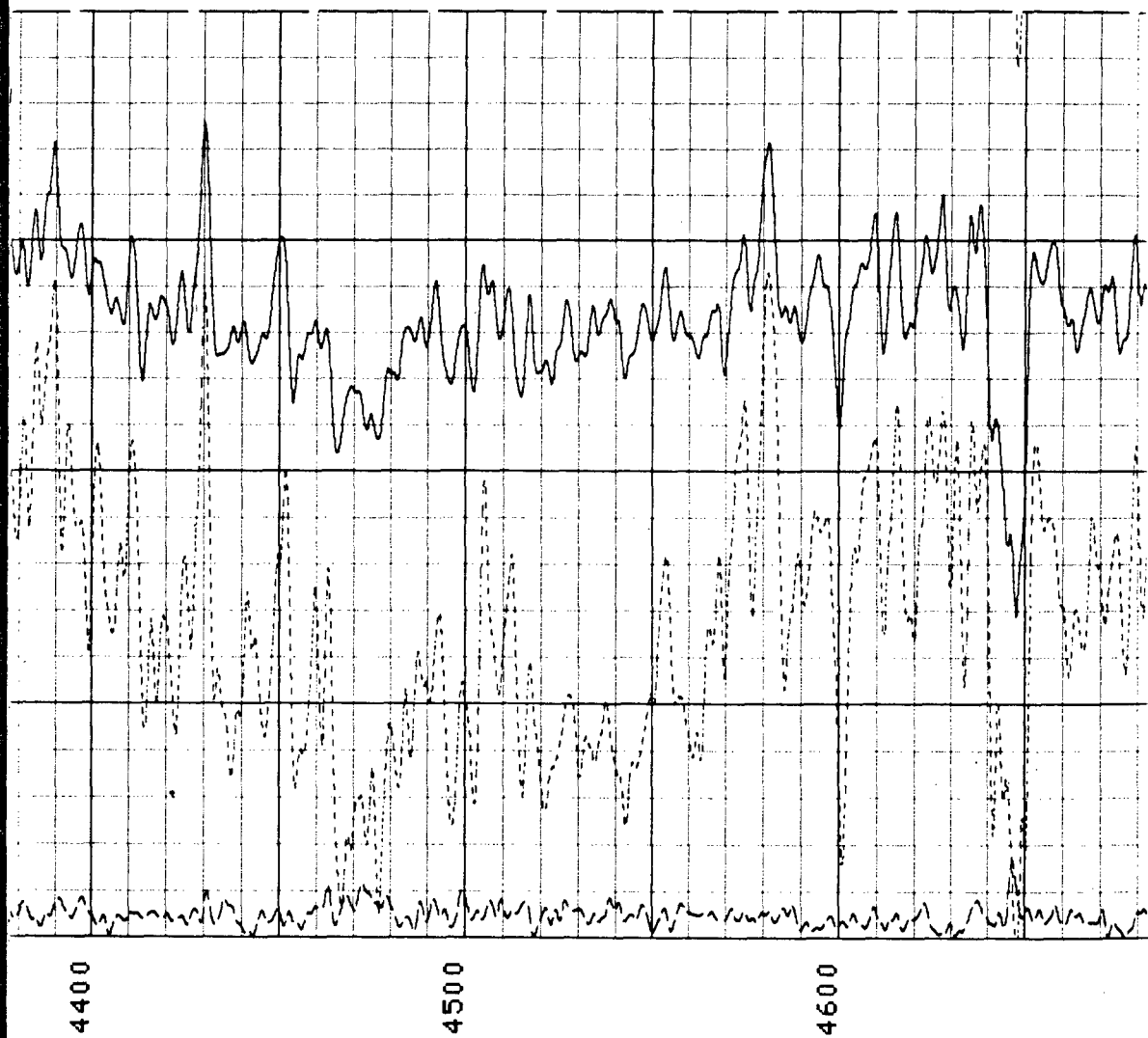


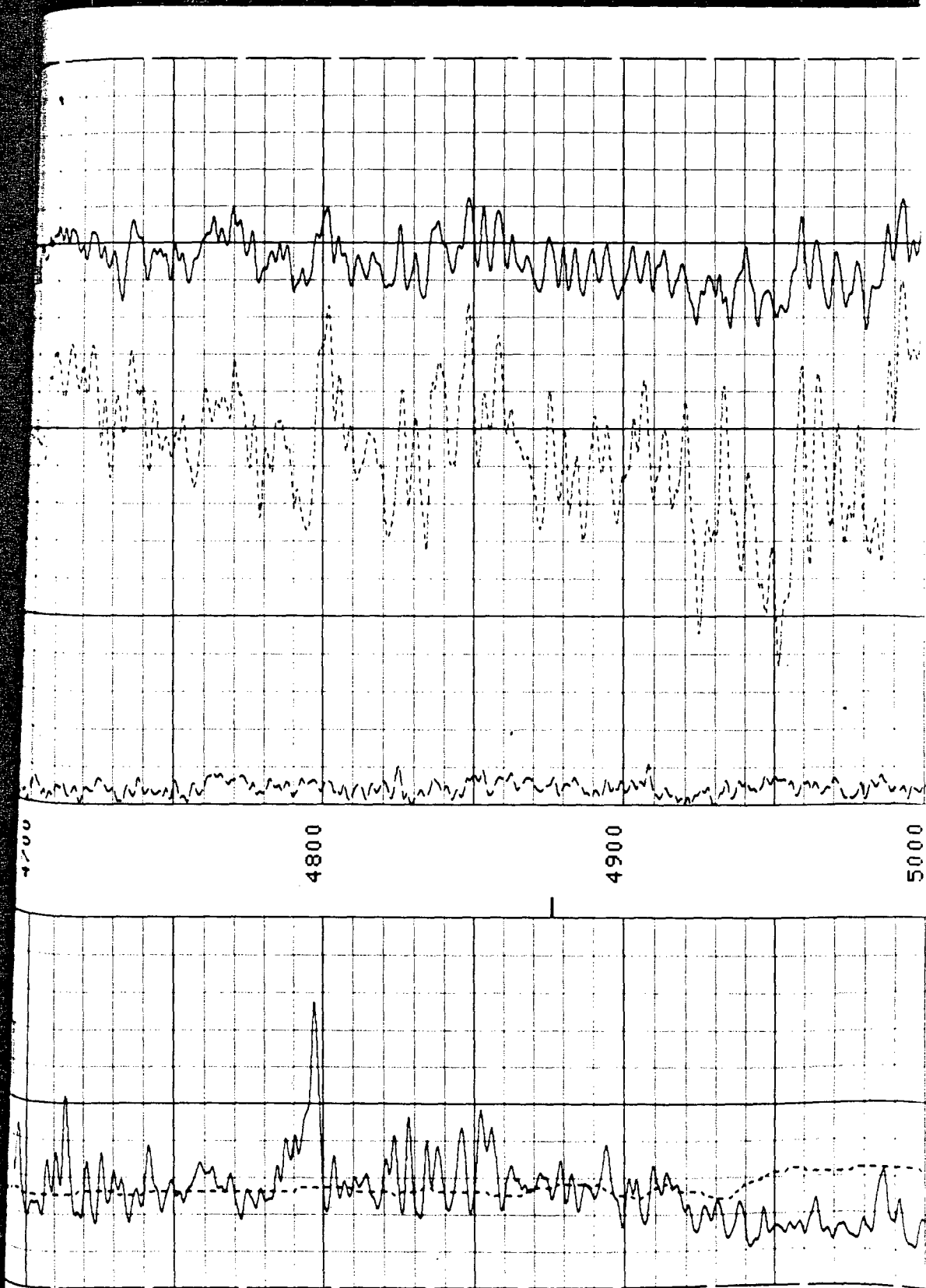


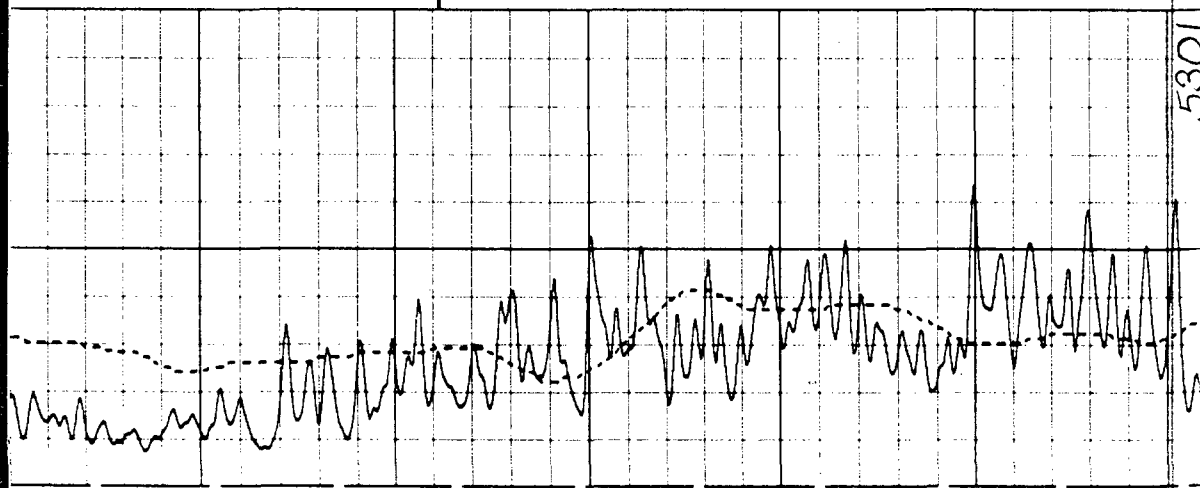
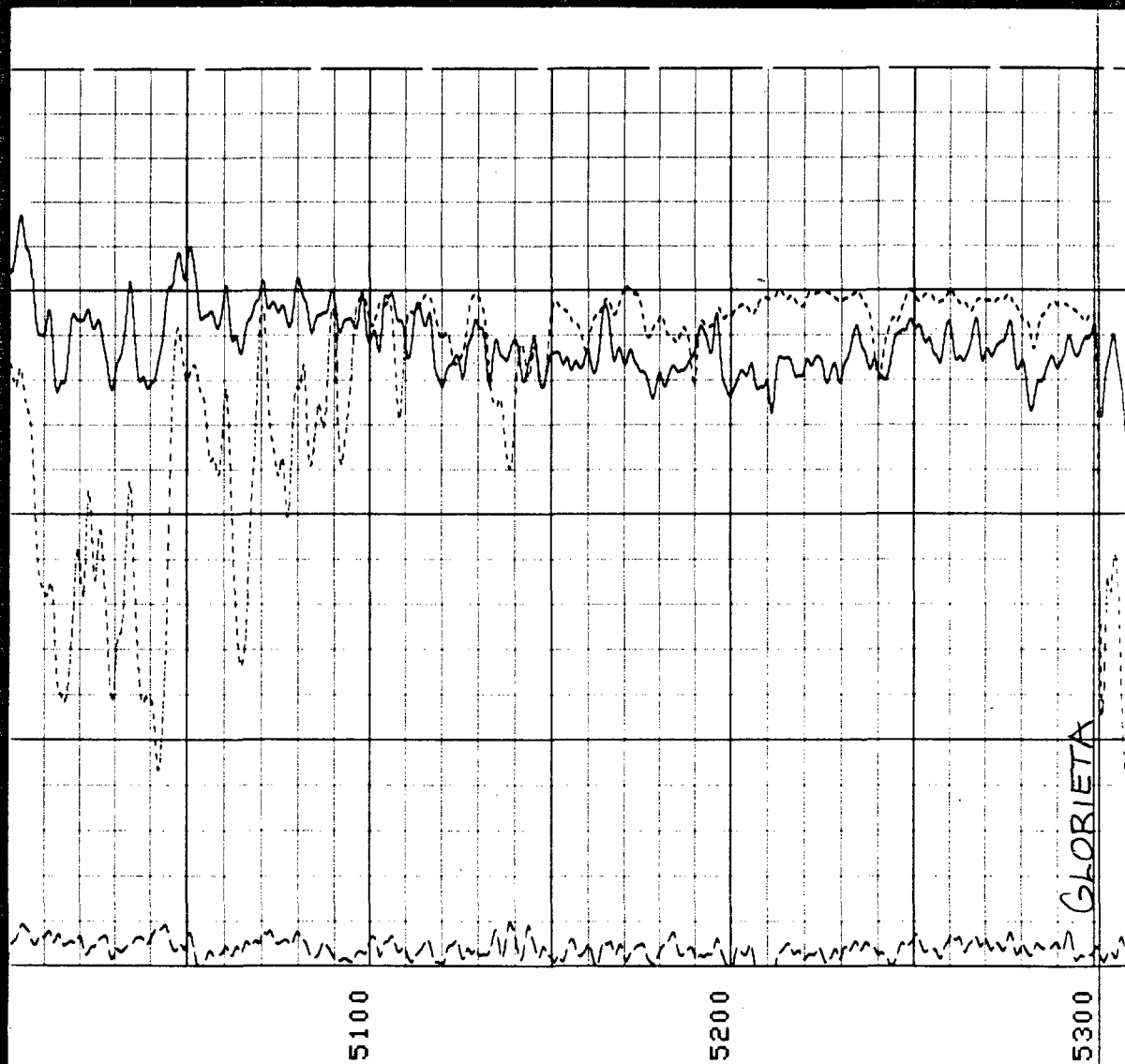


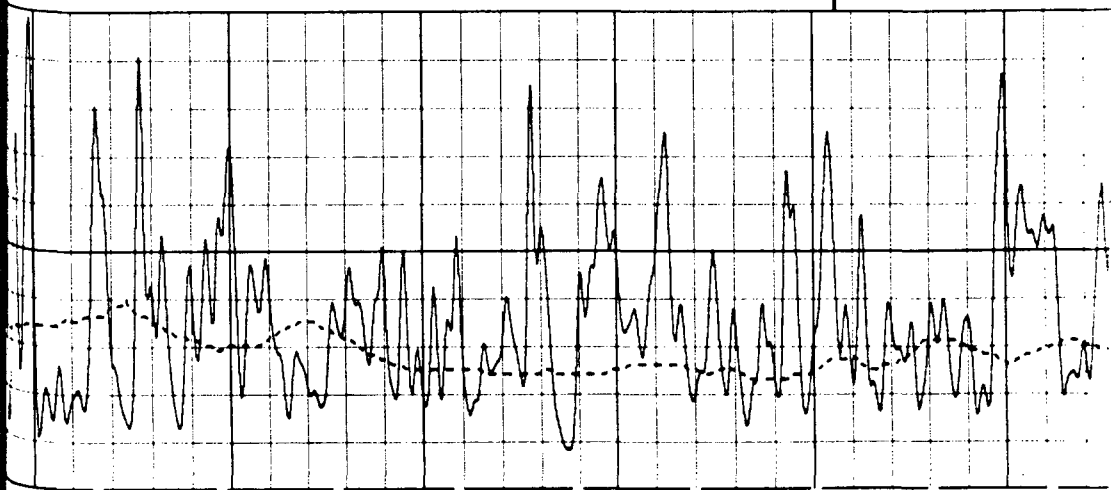
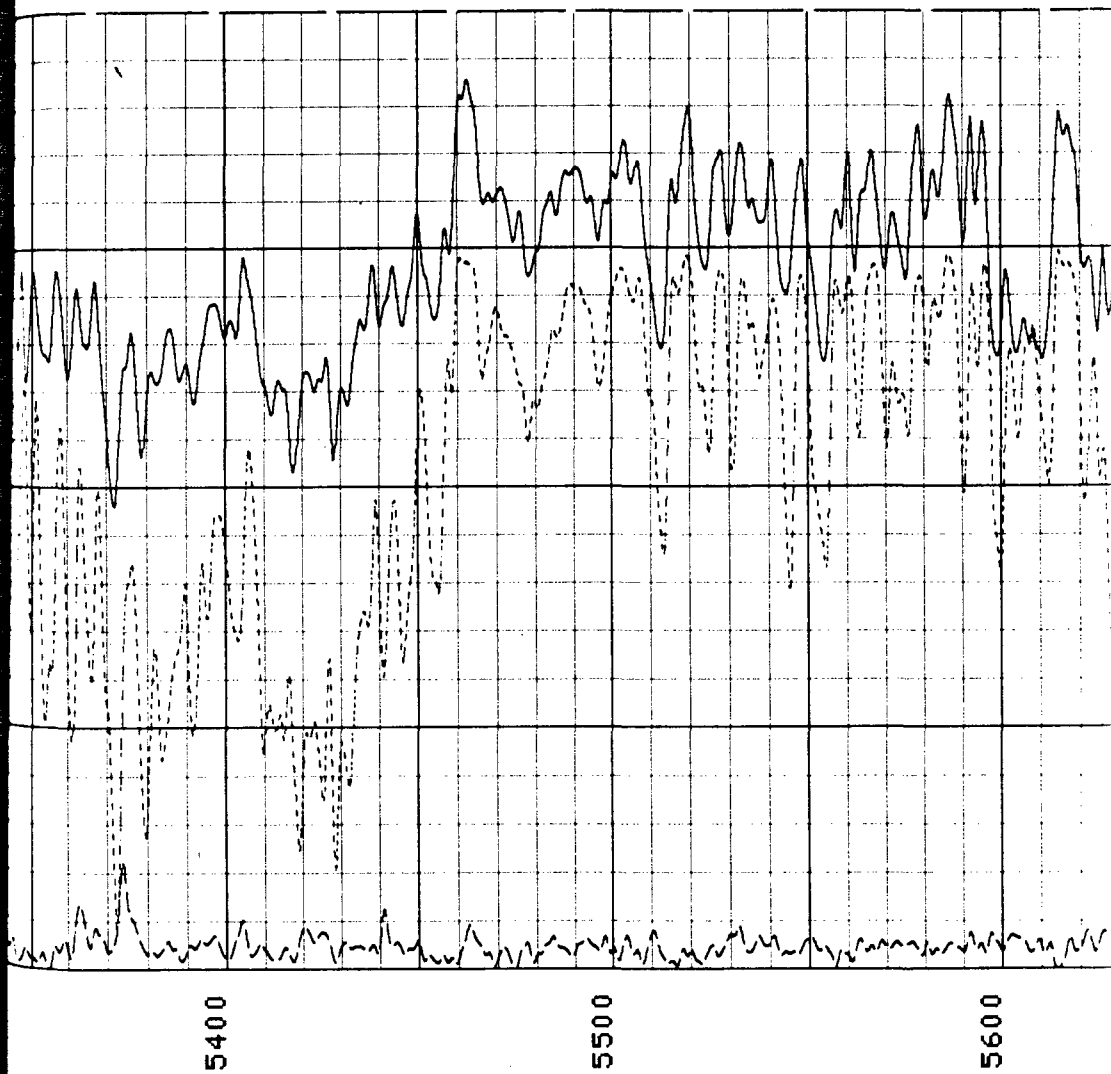


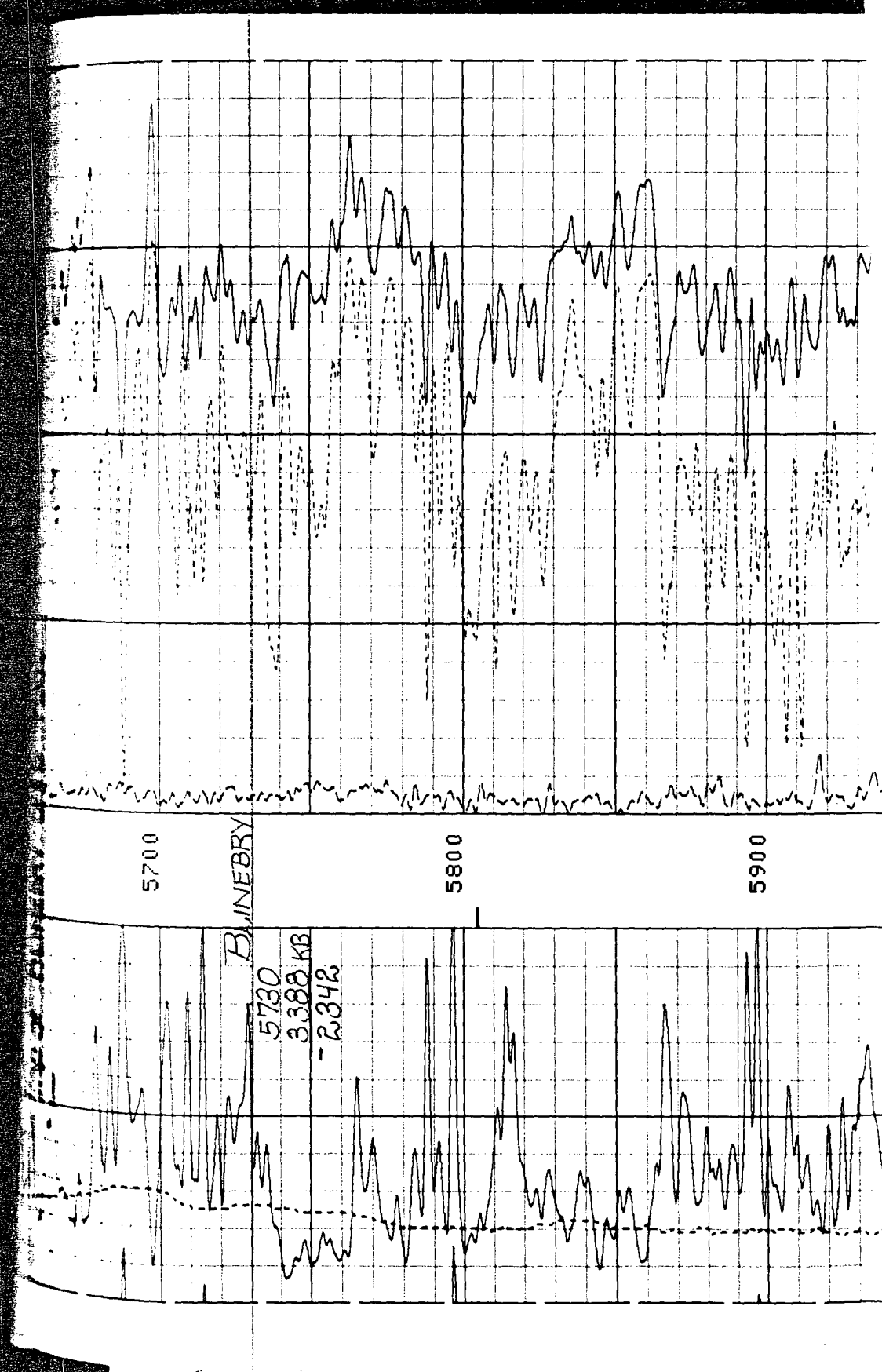


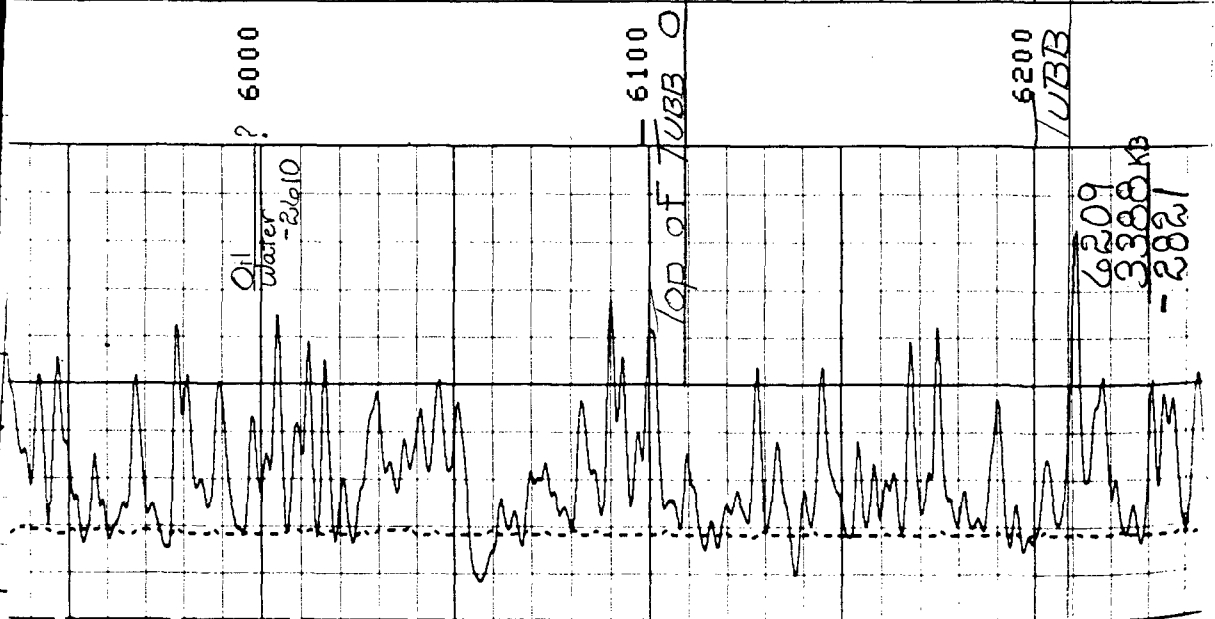
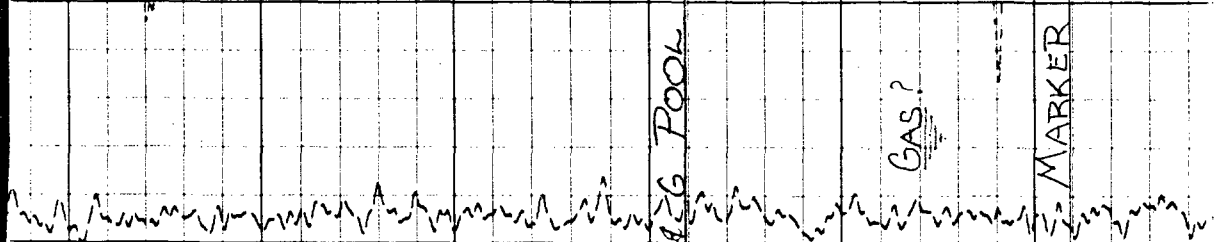
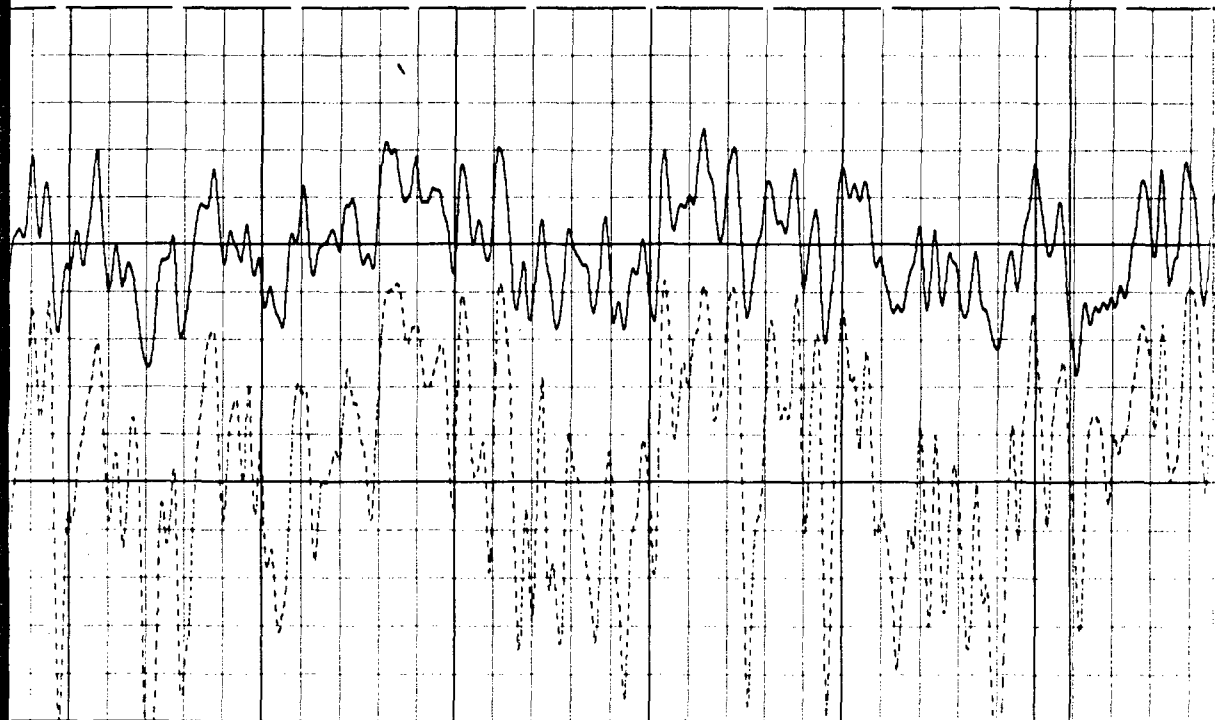












6000

Oil
Water
-2610

6100

Top of TUBB OIL POOL

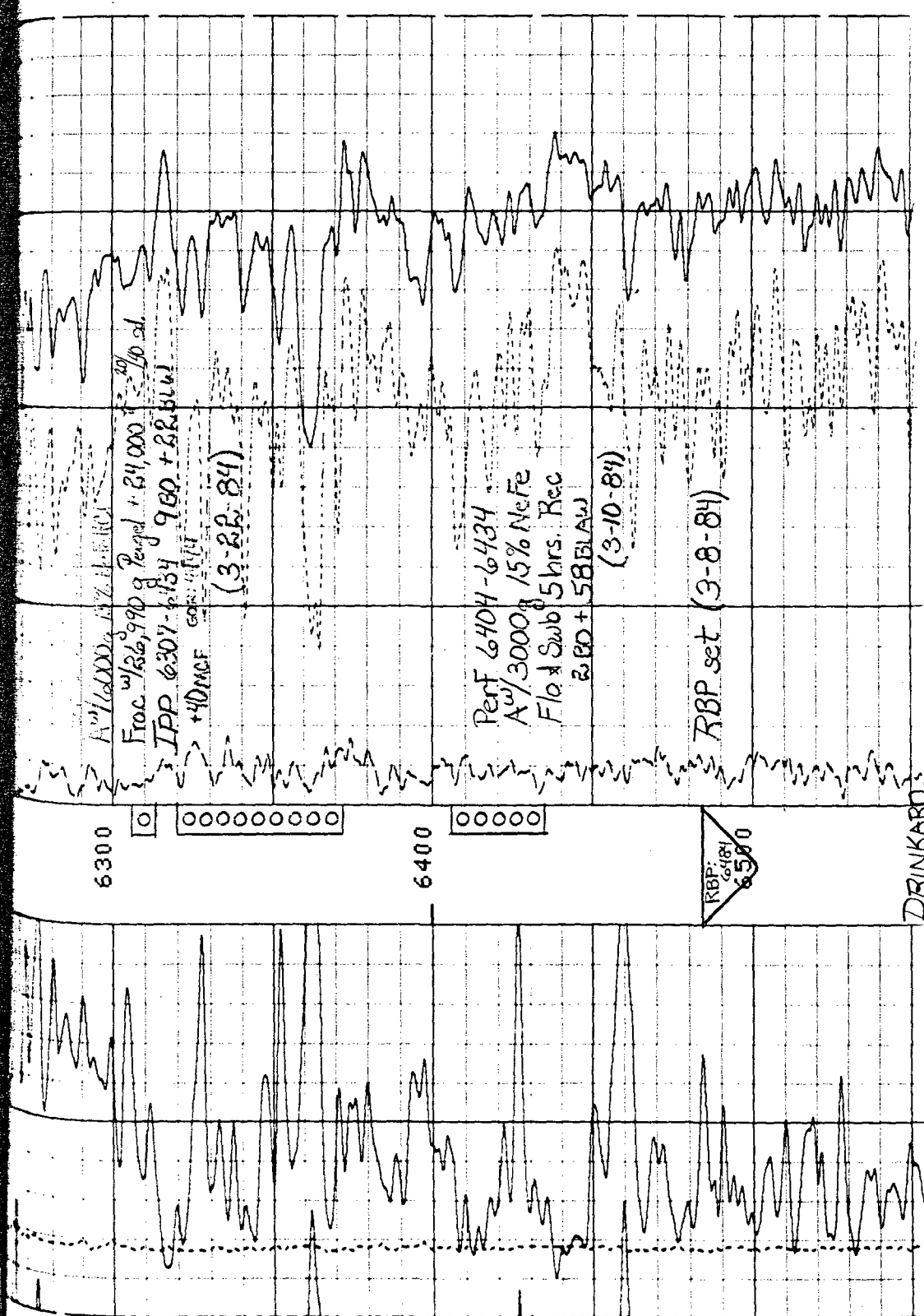
6200

TUBB

6209
3388
-2821

GAS?

MARKER



6300

○

○○○○○○○○○○

6400

○○○○○

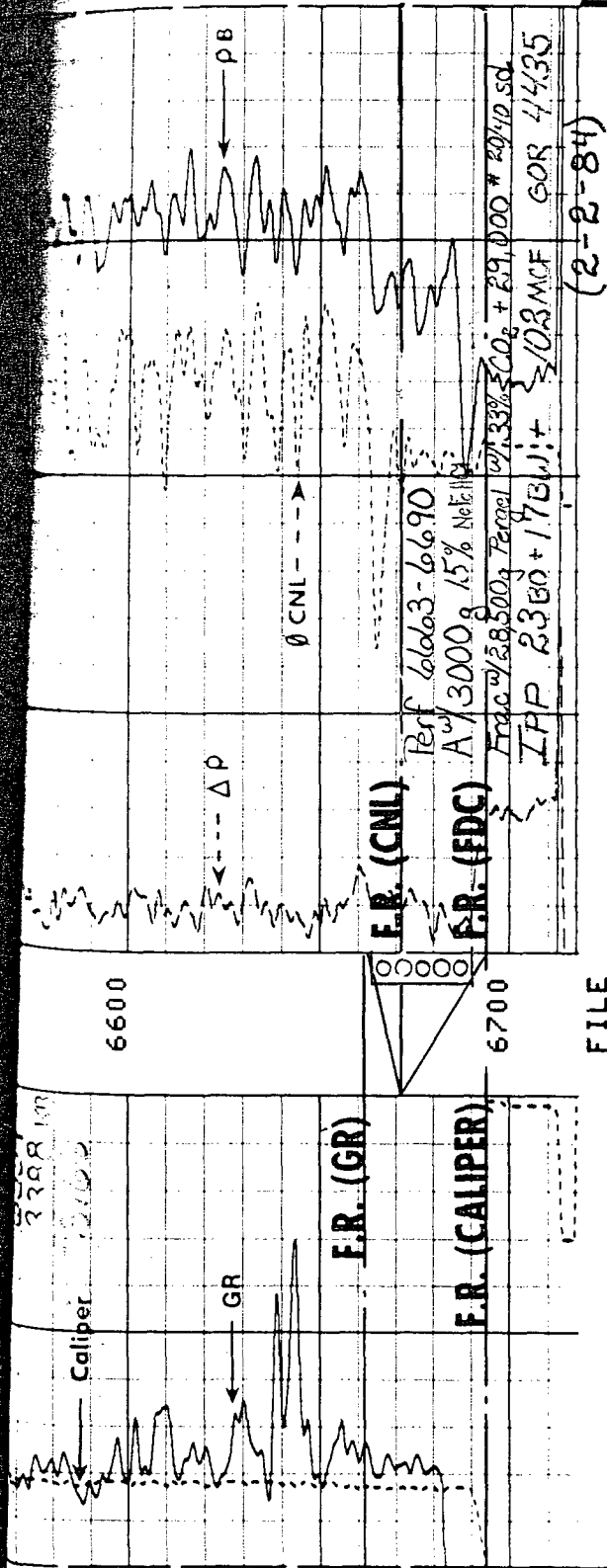
RBP: 6484
 6500

DRINKARD

A 1/10000 13% H₂O
 Floc w/ 136,990 g Pangel + 24,000 g 20 sl
 IPP 6307-6434 900 + 22.5 ml
 + 40 MCF
 (3-22-84)

Perf 6404-6434
 A w/ 3000 g 15% NaFe
 Flo & Sub 5 hrs Rec
 RBP + 58 BLAW
 (3-10-84)

RBP set (3-8-84)



3

GR (GAPI)		DRHO(G/C3)	
100.00	200.00	-0.050	0.4500
CALI(IN)		RHOB(G/C3)	
6.0000	16.000	2.0000	3.0000
GR (GAPI)		NPHI	
0.0	100.00	0.7000	0.3000
		NPHI	
		0.3000	-0.100

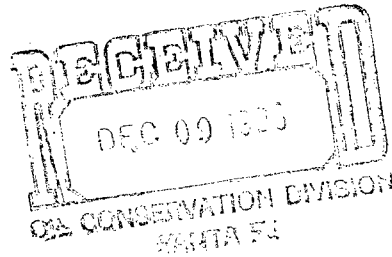
SENSOR MEASURE POINT TO TENSION REFERENCE POINT

SSGT 28.6 FEET
NPHI 24.2 FEET

GR 33.2 FEET
NPHI 24.2 FEET



**Sun Production
Operations Division**
Southwestern District



**Sun Exploration and
Production Company**
No 24 Smith Road
ClayDesta Plaza
PO Box 1861
Midland TX 79702 9970
915 688 0300

December 6, 1985

Mr. David Catanach
Energy & Minerals Dept.
P.O. Box 2088
Santa Fe, New Mexico 87501

RE: Eva Owens A Lease
Well No. 3
Unit Ltr. K, Sec. 25,
T-21-S, R-37-E
Lea County, Texas

Dear Mr. Catanach:

Enclosed is the additional information needed for you to process our application to downhole commingle for the referenced well.

- 1) Estimated bottom hole pressure data
- 2) Decline curve for the zones
- 3) C-116 Form

The royalty and interest owners are the same for the three zones. The commingling of these zones will not lower the value of the produced oil.

If you have any questions or need additional information please contact me at (915) 688-0374.

Very truly yours,

Dee Ann Kemp
Associate Accountant

DAK/mcn

Eva Owens A Lease Well No. 3
Application to Downhole Commingle
Estimated Bottom Hole Pressure

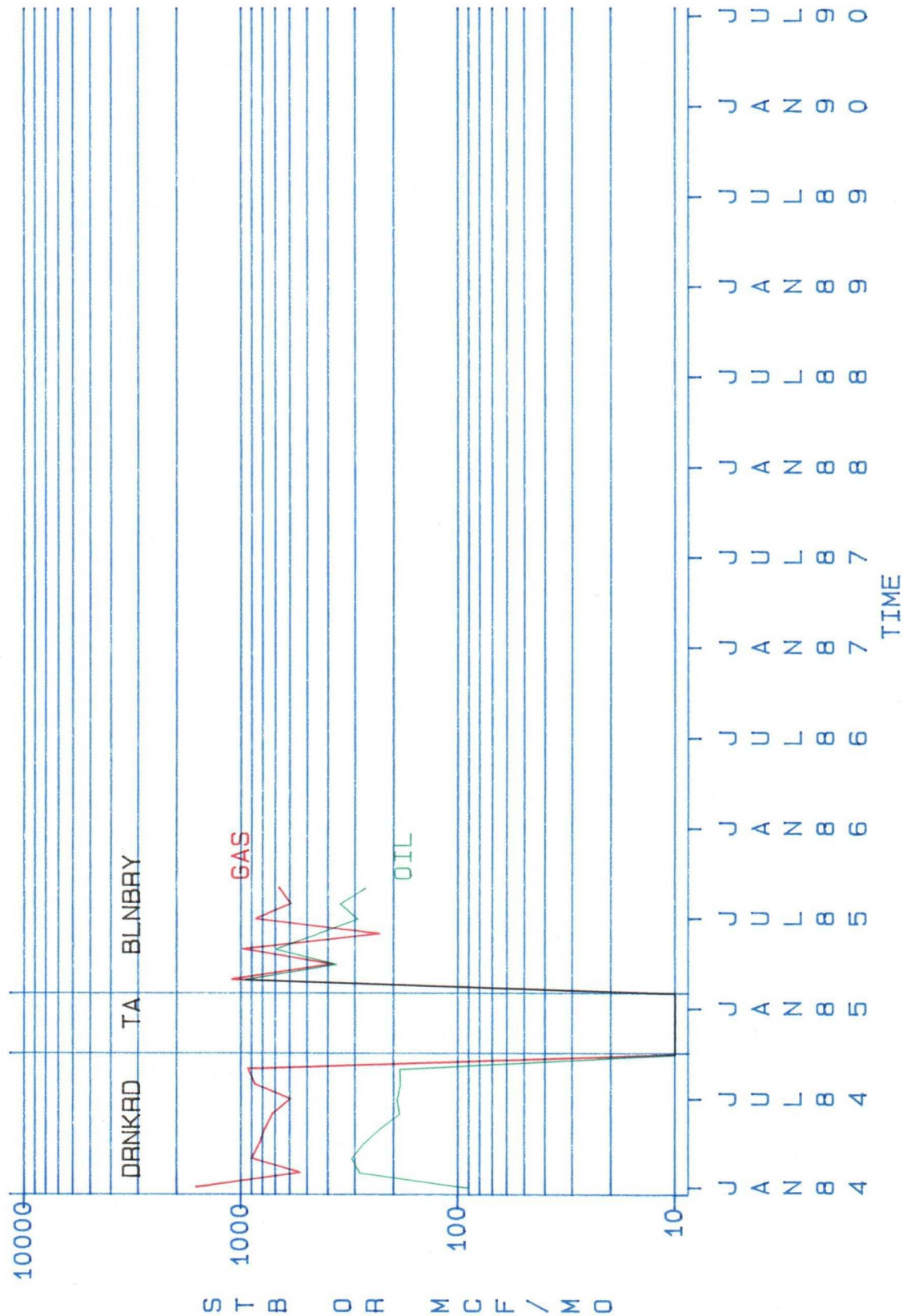
Drinkard	279 PSIG	24 Hr.	SI
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Blindbry	299 PSIG	24 Hr.	SI
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Do not anticipate crossflow of fluids since the well will be maintained at pumped off conditions.

EVA OWENS --A-- #3

GROSS MONTHLY PRODUCTION



Operator		County		Lea										
Sun Exploration and Productin Co.		Blinebry/Drinkard/Tubb												
Address		Type of Test		Completion										
P.O. Box 1861, Midland, Texas 79702		Scheduled		Special										
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	SMOKE SIZE	T.B.G.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU.FT/BSL
		U	S	T						R	WATER BBLs.	GRAV. OIL	OIL BBLs.	
Eva Owens -A-	3	K	25	21	37	10-24-85								
	Blinebry Zone								24	10	13	43%	33	2538/1
	Tubb Zone								24	3	6	20%	31	5167/1
	Drinkard Zone								24	6	11	37%	22	2000/1

All original and one copy of this report to the district office of the New Mexico Oil Conservation Division in accordance with Rule 301 and appropriate pool rules.

(7,110)

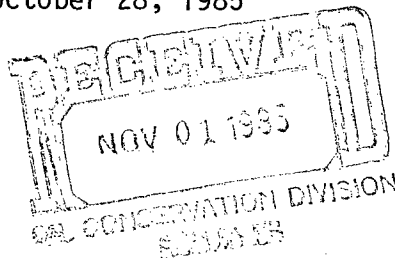


STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

TONEY ANAYA
GOVERNOR

October 28, 1985

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-6161



OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC	_____
DHC	_____ X _____
NSL	_____
NSP	_____
SWD	_____
WFX	_____
PMX	_____

Gentlemen:

I have examined the application for the:

Sun Exploration & Production Co.	Eva Owens A	No. 3-K	25-21-37
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

O.K.----J.S.

Yours very truly,

Jerry Sexton
Supervisor, District 1

/mc